Pioneer *sound.vision.soul*

Service Manual

ORDER NO.
RRV2907

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-AX10Ai-G

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	The voltage can be converted by the following method.
VSX-AX10Ai-G	SF	AC110/120-127V/220V/230-240V	With the voltage selector

- This service manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
VSX-59TXi/KU/CA	RRV2856	

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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*
- *Reference Nos. indicate the pages and Nos. in the service manual for the base model.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 → 56×10^1 → 561 ······························ RD1/4PU$\boxed{5}\boxed{6}\boxed{1}$J
47k → 47×10^3 → 473 ······························ RD1/4PU$\boxed{4}\boxed{7}\boxed{3}$J
0.5 → R50 ······························ RN2H$\boxed{R}\boxed{5}\boxed{0}$K
1 → 1R0 ······························ RS1P$\boxed{1}\boxed{R}\boxed{0}$K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k → 562×10^1 → 5621 ······························ RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

■ CONTRAST OF TABLE

VSX-AX10Ai-G/SF and VSX-59TXi/KU/CA are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-59TXi /KU/CA	VSX-AX10Ai-G /SF	
		PCB ASSEMBLIES			
	NSP	1..VR & MOTHER ASSY	AWM7833	AWM7835	
P13- 1		2..MOTHER ASSY	AWX8280	AWX8282	
	NSP	1..PS & SP ASSY	AWK7769	AWK7770	
P15- 2		2..SP (B) ASSY	AWX8332	AWX8333	
P15- 3		2..AC PRIMARY ASSY	AWX8261	AWX8262	
P15- 4		2..SP (A) ASSY	AWX8330	AWX8331	
P17- 6		2..POSISTER (L) ASSY	AWX7844	AWX7845	
P17- 7		2..POSISTER (R) ASSY	AWX7846	AWX7847	
		2..VOLTAGE SEL ASSY	Not used	AWX7842	No. 1
P17-11		2..POSISTER(MT) ASSY	AWX8270	AWX8061	
P13- 2		2..DIODE ASSY	AWX8412	AWX8482	
	NSP	1..VIDEO ASSY	AWQ7020	AWQ7022	
P15- 6		2..V-CONVERT ASSY	AWX8160	AWX8162	
P15- 7		2..COMPONENT ASSY	AWX7953	AWX7955	
P15- 9		2..COMPOSITE ASSY	AWX7942	AWX7944	
P15-10		2..A/V I/O ASSY	AWX8271	AWX8272	
	NSP	1..A/D & CONTROL ASSY	AWM7830	AWM7831	
P15-12		2..ANALOG IN & A/D ASSY	AWX8273	AWX8274	
P19- 1		2..DISPLAY ASSY	AWX8317	AWX8318	
P15- 1		1..FM/AM TUNER Module	AXX7114 (AXQ7237)	AXX7115 (AXQ7238)	
		PACKING SECTION			
P9- 1	⚠	AC Power Cord	ADG7061	ADG7062	
	⚠	AC Power Cord	Not used	ADG7082	No. 2
P9- 3		Remote Control Unit	AXD7377	AXD7380	
P9- 5	⚠	AC Adaptor (Remote control)	AXY7009	AXY7012	
P9- 8		Operating Instructions (English)	ARB7290	ARB7292	
		Operating Instructions(Chinese)	Not used	ARC7504	No. 3
P9- 9	NSP	Warranty Card	ARY1026	Not used	
P9-16		Packing Case	AHD8237	AHD8240	
		Caution Card SB	Not used	ARM7064	No. 4
		Caution 220V Label	Not used	ARR7019	No. 5
	⚠	AC Plug Adapter	Not used	AKX7011	Accessories
		Caution Card SD SB	Not used	ARM7063	No. 6
		NTSC Attention SB	Not used	ARM7066	No. 7
		Software (DVD, NTSC)	Not used	AWX8035	No. 8
		Air Cap Bag	Not used	AHG7103	No. 9
		Assist Operating Instructions(CAL.)E	Not used	ARH7060	No.10
		Assist Operating Instructions(CAL.)CH	Not used	ARH7064	No.11

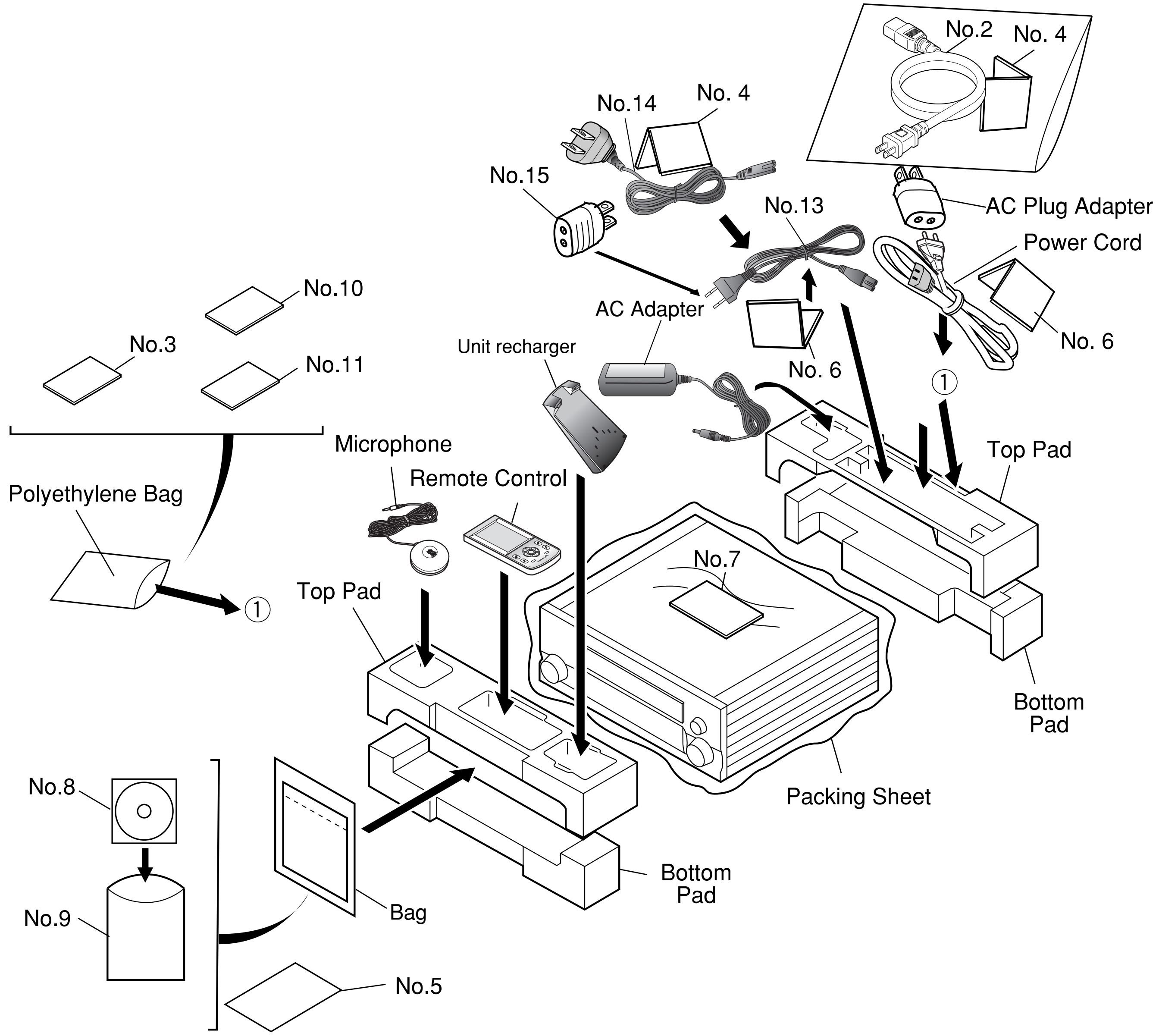
Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-59TXi /KU/CA	VSX-AX10Ai-G /SF	
	⚠	AC Adapter Cord	Not used	ADG1127	No.13
	⚠	Power Cord	Not used	ADG7097	No.14
		Power Plug Adapter	Not used	VKX1011	No.15
		EXTERIOR SECTION			
P11- 1	NSP	Top Plate	ANE7323	ANE7324	
P11- 2		Side Alum	AAH7095	AAH7093	
P11- 5		Insulator	ANL7023	Notused	
P11- 8	NSP	Bottom Plate Cu	ANF7029	ANF7038	
P11-12		Screw	FBT40T080FZK	ABA7103	
P11-21		Screw	BBT30P100FCC	ABA7102	
P11-23		License Label	ARW7256	ARW7194	
P11-25	NSP	Energy Star Label	AAX8022	Not used	
P11-29	NSP	Fuse Caution Label	ARW7175	Not used	
		Edgeing guard	Not used	PEC1016	No.16
		Bottom Base	Not used	ANF7037	No.17
		Insulation Sheet(4x18)	Not used	AMR7481	No.18
		Insulation Sheet(9x75)	Not used	AMR7480	No.19
	NSP	Side Panel Sheet	Not used	AMR7476	No.20
		CHASSIS SECTION			
P13-12	⚠	Power Transformer (T1) (AC120V)	ATS7320	Not used	
P13-12	⚠	Power Transformer (T1) (AC110V/120-127V/220V/230-240V)	Not used	ATS7323	
P13-59	⚠	Fuse (FU4)	VEK1024 (5A/125V)	REK1028 (T4.0A/L250V)	
P13-60	⚠	Fuse (FU5-FU8)	VEK1019 (2A/125V)	REK1025 (T2.0A/L250V)	
P13-77	⚠	Fuse (FU9, FU10)	VEK1014 (1A/125V)	REK1021 (T800mA/250V)	
P13-85		J1102 3P Connector Assy	ADX7388	Not used	
	⚠	Fuse (FU2,FU3)	Not used	REK-108 (T6.3A/L250V)	No.21
	NSP	Fuse Label	AAX8019	AAX8018	
		REAR PANEL SECTION			
P15-30		Rear Panel	ANC8205	ANC8209	
P15-20	⚠	Fuse (FU1)	AEK-306 (12A/125V)	AEK7071 (T10A/L250V)	
	⚠	Voitage Selector	Not used	AKX-507	No. 22
	NSP	Fuse Label	Not used	AXX1572	No. 23
	NSP	AC SW lead Wire (Y1, 6004)	Not used	ZWNH1672G22-1	No. 24
	NSP	AC SW lead Wire (Y2, 6005)	Not used	ZWNH1672G22-3	
	NSP	AC SW lead Wire (Y3, 6006)	Not used	ZWNH1672G22-4	
	NSP	AC SW lead Wire (Y4, 6007)	Not used	ZWNH1672G22-2	
	NSP	AC SW lead Wire (Y5, 6008)	Not used	ZWNH1672G22-8	
		FRONT PANEL SECTION			
P19-11		Front Panel	ANB7322	ANB7325	
P19-12		Name Plate	PAN1376	PAN1377	
P19-13		Rotary Knob L	AAA7018	AAA7016	
P19-15		Rotary Knob S	AAA7015	AAA7013	
P19-17		Panel Base L	AMB7788	AMB7786	
P19-18		Panel Base R	AMB7791	AMB7789	
P19-19		POWER Button	AAD7440	AAD7485	
P19-20		POWER Button M	AAD7442	AAD7491	
P19-26		Door Pane	ANB7326	ANB7327	
P19-27		Door Cushion	AED7051	AED9014	
P19-28		Door Plate	AAH7105	AAH7108	
P19-29		FL Lens I	AAK8169	AAK8170	
P19-30		Inner Panel	AAH7109	AAH7110	
P19-34		Panel Base C	AMB7868	AMB7866	
P19-40		Screw	ABA7074	ABA7073	

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-59TXi /KU/CA	VSX-AX10Ai-G /SF	
P19-62	NSP	Panel Spacer left L	AMR7411	AMR7417	
P19-63	NSP	Panel Spacer left S	AMR7408	AMR7415	
P19-64	NSP	Panel Spacer right L	AMR7412	AMR7418	
P19-65	NSP	Panel Spacer right S	AMR7409	AMR7416	
		REMOTE CONTROL SECTION			
P193- 1		Case A	AZN7985	AZN7988	
P193- 2		Case B	AZN7989	AZN7978	
P193- 5		Battery Cover	AZN7991	AZN7928	
P193-10		MAIN Assy	AZW7288	AZW7291	

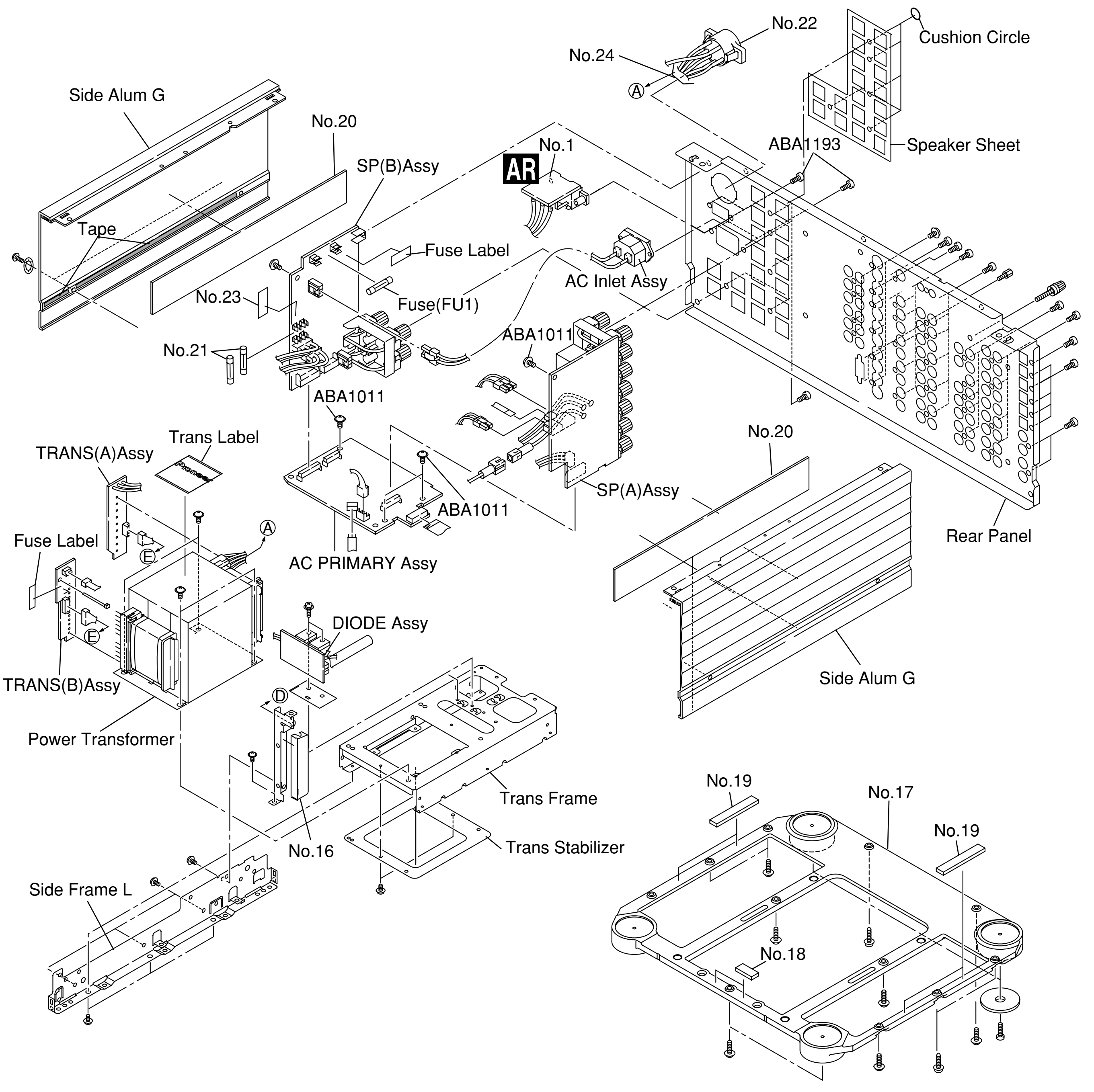
Notes :
- The numbers in the remarks column correspond to the numbers on the " EXPLODED VIEWS ".
- For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES", "2. PCB CONNECTION DIAGRAM" and "3. SCHEMATIC DIAGRAM".

■ EXPLODED VIEWS

● PACKING SECTION


No.2
No. 4
No.14
No. 4
No.15
No.13
AC Plug Adapter
Power Cord
No.10
AC Adapter
No. 6
No.3
No.11
Unit recharger
No. 6
①
Microphone
Top Pad
Remote Control
Polyethylene Bag
No.7
①
Top Pad
Bottom Pad
Packing Sheet
No.8
Bottom Pad
No.9
Bag
No.5

● EXTERIOR SECTIONS


No.22
Cushion Circle
No.24
A
Side Alum G
No.20
ABA1193
Speaker Sheet
No.1
AR
SP(B)Assy
Tape
Fuse Label
AC Inlet Assy
No.23
Fuse(FU1)
ABA1011
No.21
ABA1011
Trans Label
TRANS(A)Assy
No.20
SP(A)Assy
ABA1011
A
Fuse Label
E
AC PRIMARY Assy
Rear Panel
DIODE Assy
E
TRANS(B)Assy
D
Side Alum G
Power Transformer
No.19
No.17
Trans Frame
No.19
No.16
Trans Stabilizer
Side Frame L
No.18

■ CONTRAST OF PCB ASSEMBLIES

A FM/AM TUNER Module

AXQ7238 and AXQ7237 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AXQ7237	AXQ7238	
	C216, C217	CKSRYB153K50	CKSRYB123K50	

B F A/V I/O ASSY

AWX8272 and AWX8271 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX8271	AWX8272	
	IC2051	UPC4570C	Not used	
	IC2052	M62429FP	Not used	
	Q2051	HN1C03F(AB)	Not used	
	D2051	UDZS5.6B	Not used	
	C2051,C2052,C2059,C2060	CEJQ1R0M50	Not used	
	C2053,C2054,C2063,C2064	CCSRCH101J50	Not used	
	C2067,C2068	CCSRCH221J50	Not used	
	C2061,C2065,C2066	CEJQ100M16	Not used	
	C2069	CKSRYB103K50	Not used	
	R2051,R2052	RS1/16S474J	RS1/16S0R0J	
	R2053,R2054	RS1/16S221J	Not used	
	R2055,R2056	RS1/16S474J	Not used	
	R2057,R2058	RS1/16S220J	Not used	
	R2061,R2062	RS1/16S472J	Not used	
	R2063,R2064,R2069,R2070,R2073,R2074	RS1/16S103J	Not used	
	R2065	RD1/2LMF561J	Not used	
	R2067,R2068,R2071,R2072,R2075,R2076	RS1/16S102J	Not used	
	R9069	Not used	RS1/16S0R0J	
	JA2051	DKB1045	Not used	

C F COMPOSITE ASSY

AWX7944 and AWX7942 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7942	AWX7944	
	IC2107	TC74HC4051AFT	Not used	
	C2159,C2160,C2161	CKSRYB103K50	Not used	
	C2164	CCSRCH181J50	Not used	
	C2186 (1000/10)	ACH7194	Not used	
	R2163,R2164,R2165,R2197	RS1/16S102J	Not used	
	R2169	RS1/16S750J	Not used	
	2105 2P PIN JACK	AKB7076	Not used	
	JA2106 1P PIN JACK	Not used	AKB7142	

EF V-CONVERT ASSY

AWX8162 and AWX8160 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX8160	AWX8162	
	IC2861	Not used	TA8772AN	
	Q2855, Q2856	Not used	2SC4081(RS)	
	Q2857, Q2905	Not used	UN5212	
	C2947, C2949, C2974, C2965	Not used	CKSRYB103K50	
	C2950	Not used	CEAT470M10	
	C2948, C2951- C2953, C2955, C2961- C2964	Not used	CKSRYB104K16	
	C2980	Not used	CKSRYB104K16	
	C2954	Not used	CEAT100M50	
	C2956, C2957	Not used	CKSRYB474K10	
	C2958- C2960	Not used	CEAT1R0M50	
	C2975	Not used	CEAT101M10	
	L2858	Not used	LAU100J	
	R2909	Not used	RS1/16S103J	
	R2910- R2914	Not used	RS1/16S102J	
	R2915	Not used	RS1/16S362J	
	R2916, R2948	Not used	RS1/16S473J	
	R2936, R2937	RS1/16S0R0J	Not used	

F COMPONENT ASSY

AWX7955 and AWX7953 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX7953	AWX7955	
	D2501	1SS355	Not used	
	R2572	RS1/16S102J	Not used	
	JA2504	AKN7014	Not used	

AK DIODE ASSY

AWX8482 and AWX8412 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX8412	AWX8482	
	CN1501 3P CONNECTOR	B03B-XASK	Not used	
	CN1502 3P Top Post	B3B-EH	Not used	

L ANALOG IN&A/D ASSY

AWX8274 and AWX8273 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX8273	AWX8274	
	IC3901	BU4052BCF	Not used	
	D3901, D3902	UDZS6.2B	Not used	
	C3951, C3952	CEAT100M50	Not used	
	C3953, C3954	CKSRYB473K50	Not used	
	R3951, R3952	RS1/16S472J	Not used	
	R3955- R3957	RS1/16S221	Not used	
	R3958, R3959	RS1/16S0R0J	Not used	

MF DISPLAY ASSY

AWX8318 and AWX8317 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX8317	AWX8318	
	IC3061	TC74HC4053AFT	Not used	
	Q3003	UN5212	Not used	
	Q3063	RN2903	Not used	
	D3029	SLI-343DUW	Not used	
	D3062- D3064, D3066	1SS355	Not used	
	C3063	CKSRYB153K50	Not used	
	R3029	RS1/16S561J	Not used	
	R3063	RS1/16S223J	Not used	
	R3065, R3069	RS1/16S103J	Not used	
	R3066	RS1/16S392J	Not used	
	R3078	Not used	RS1/16S0R0J	

AB F AC PRIMARY ASSY

AWX8262 and AWX8261 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX8261	AWX8262	
	Q1104	DTC124EK	Not used	
	D1105	1SS355	Not used	
	R1108	RS1/16S104J	Not used	
	R1109	RS1/16S473J	Not used	
⚠	T1101	ATT7043	ATT7041	
	CN1107	B03B-XASK-1	Not used	

R F MOTHER ASSY

AWX8282 and AWX8280 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX8280	AWX8282	
	Q5809	UN5112	Not used	
	C5858	CKSRYB103K50	Not used	
	R5854	Not used	RS1/16S103J	
	R5932	RS1/16S154J	Not used	
	R5862	RS1/16S102J	Not used	
	R5864	RS1/16S104J	Not used	
	R5893- R5897	RS1/16S0R0J	Not used	

AJ F SP (B) ASSY

AWX8333 and AWX8332 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX8332	AWX8333	
	Q1002	DTC124EK	Not used	
	D1003, D1004	1SS355	Not used	
⚠	R1002	ACN7116	Not used	
⚠	R1003	RCN1080	Not used	
	R1005, R1006	RS1/16S220J	RS1/16S0R0J	
⚠	CN1004 1P AC OUTLET	AKP1033	Not used	
⚠	CN1003	RKP1834	Not used	
⚠	CN1006 4P SPEAKER TERMINAL	AKE7089	AKE7092	
	H1003- H1006 FUSE CLIP	Not used	AKR1004	
⚠	J1001 3P BOARD IN WIRE	Not used	ADX7357	
⚠	J1002 3P BOARD IN WIRE	Not used	ADX7389	
⚠	RY1002	ASR7016	Not used	

AD SP (A) ASSY

AWX8331 and AWX8330 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX8330	AWX8331	
⚠	CN1201 6P SPEAKER TERMINAL	AKE7088	AKE7091	
⚠	CN1202 8P SPEAKER TERMINAL	AKE7087	AKE7090	

AG POSISTER (L) ASSY

AWX7845 and AWX7844 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX7844	AWX7845	
⚠	TH1901 POSISTOR	AEX7006	AEX7008	

AH POSISTER (R) ASSY

AWX7847 and AWX7846 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX7846	AWX7847	
⚠	TH1902 POSISTOR	AEX7006	AEX7008	

AP POSISTER (MT) ASSY

AWX8061 and AWX8270 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX8270	AWX8061	
⚠	TH1903 POSISTOR	PTFM04BB222Q2N34B0	AEX7007	

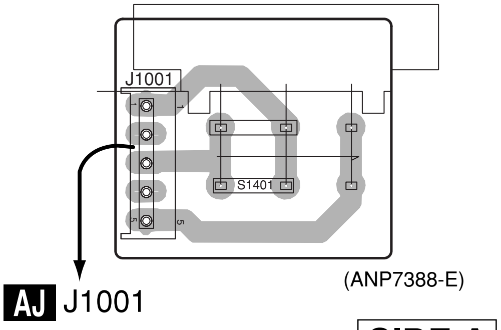
■ PCB PARTS LIST

Mark	No.	Description	Part No.
		AR VOLTAGE SEL ASSY	
		SWITCHES	
⚠	S1401	VOLTAGE SELECTOR	AKX1033

2. PCB CONNECTION DIAGRAM

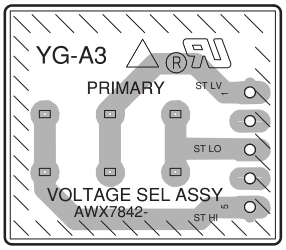
2.1 VOLTAGE SEL. ASSY

AR VOLTAGE SEL. ASSY



(ANP7388-E)

SIDE A



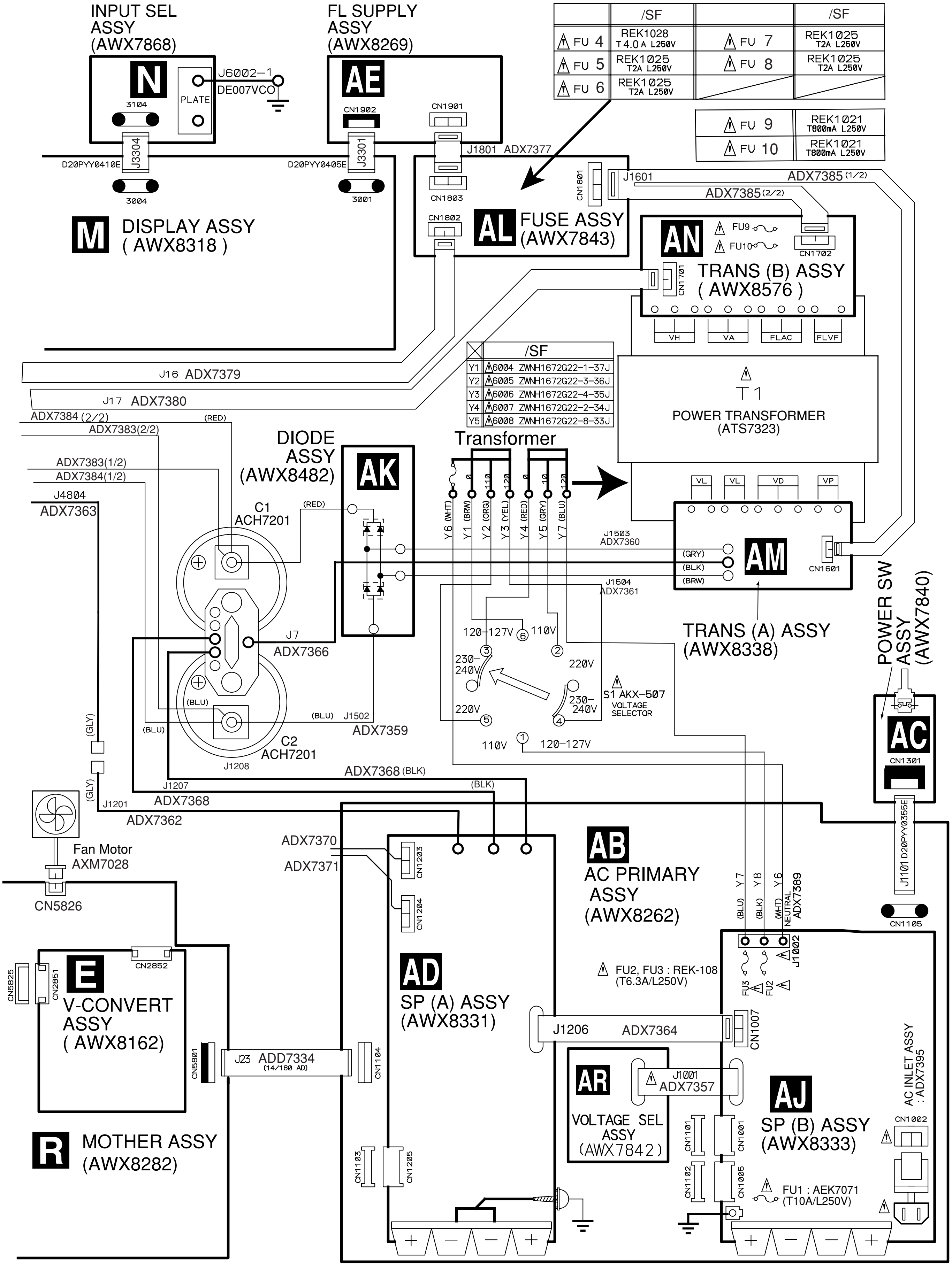
(ANP7388-E)

SIDE B

AR

3. SCHEMATIC DIAGRAM

3.1 OVERALL WIRING DIAGRAM

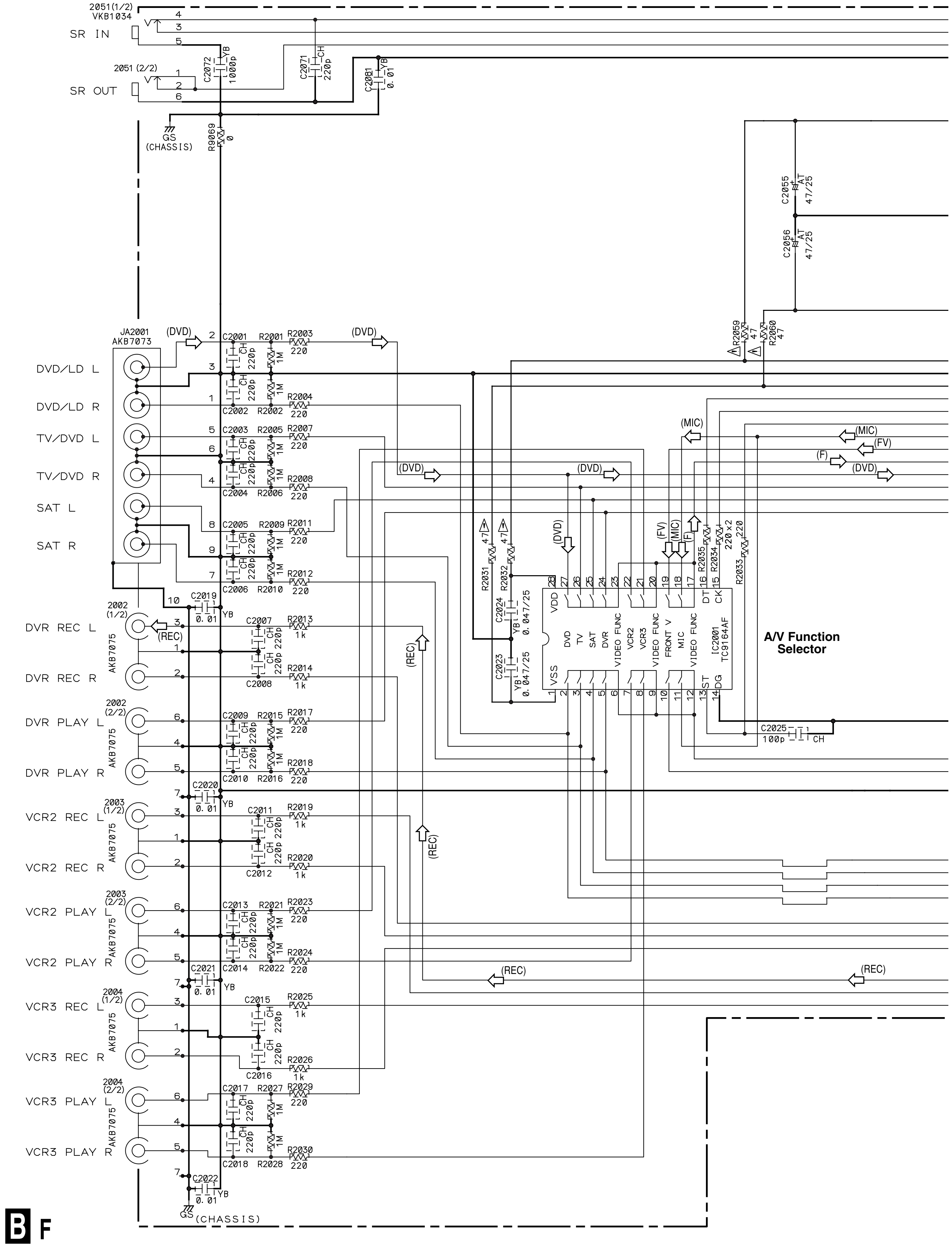

INPUT SEL ASSY (AWX7868)
N
3104
PLATE
J6002–1
DE007VC0
J3304
D20PYY0410E
3004
FL SUPPLY ASSY (AWX8269)
AE
CN1902
CN1901
J3301
D20PYY0405E
3001
J1801 ADX7377
CN1803
CN1802
CN1801
J1601
ADX7385 (1/2)
ADX7385 (2/2)
AL
FUSE ASSY (AWX7843)
M
DISPLAY ASSY (AWX8318)
AN
FU9
FU10
CN1702
CN1701
TRANS (B) ASSY (AWX8576)
VH
VA
FLAC
FLVF
T1
POWER TRANSFORMER (ATS7323)
J16 ADX7379
J17 ADX7380
ADX7384 (2/2)
(RED)
ADX7383(2/2)
ADX7383(1/2)
ADX7384(1/2)
J4804
ADX7363
DIODE ASSY (AWX8482)
AK
C1 ACH7201
(RED)
Transformer
Y6 (WHT)
Y1 (BRW)
Y2 (ORG)
Y3 (YEL)
Y4 (RED)
Y5 (GRY)
Y7 (BLU)
0
110
120
0
10
120
VL
VL
VD
VP
J1503 ADX7360
(GRY)
(BLK)
(BRW)
AM
CN1601
J1504 ADX7361
TRANS (A) ASSY (AWX8338)
POWER SW ASSY (AWX7840)
J7 ADX7366
120–127V
110V
230–240V
220V
220V
230–240V
110V
120–127V
S1 AKX–507 VOLTAGE SELECTOR
(BLU)
(BLU)
(BLU) J1502
ADX7359
C2 ACH7201
J1208
(GLY)
(GLY)
ADX7368 (BLK)
(BLK)
J1207
ADX7368
J1201
ADX7362
Fan Motor AXM7028
CN5826
AC
CN1301
J1101 D20PYY0355E
CN1105
ADX7370
ADX7371
CN1203
CN1204
AB
AC PRIMARY ASSY (AWX8262)
Y7 Y8 Y6
(BLU) (BLK) (WHT) NEUTRAL
ADX7389
J1002
FU2, FU3 : REK-108 (T6.3A/L250V)
FU3 FU2
E
CN2852
CN5825
CN2851
V-CONVERT ASSY (AWX8162)
AD
SP (A) ASSY (AWX8331)
J1206 ADX7364
CN1007
CN5801
J23 ADD7334 (14/160 AD)
CN1104
AR
VOLTAGE SEL ASSY (AWX7842)
J1001 ADX7357
AJ
SP (B) ASSY (AWX8333)
AC INLET ASSY : ADX7395
CN1002
CN1101
CN1001
CN1102
CN1005
FU1 : AEK7071 (T10A/L250V)
R
MOTHER ASSY (AWX8282)
CN1103
CN1205
+ – – +
+ – – +

	/SF		/SF
FU 4	REK1028 T4.0A L250V	FU 7	REK1025 T2A L250V
FU 5	REK1025 T2A L250V	FU 8	REK1025 T2A L250V
FU 6	REK1025 T2A L250V		

FU 9	REK1021 T800mA L250V
FU 10	REK1021 T800mA L250V

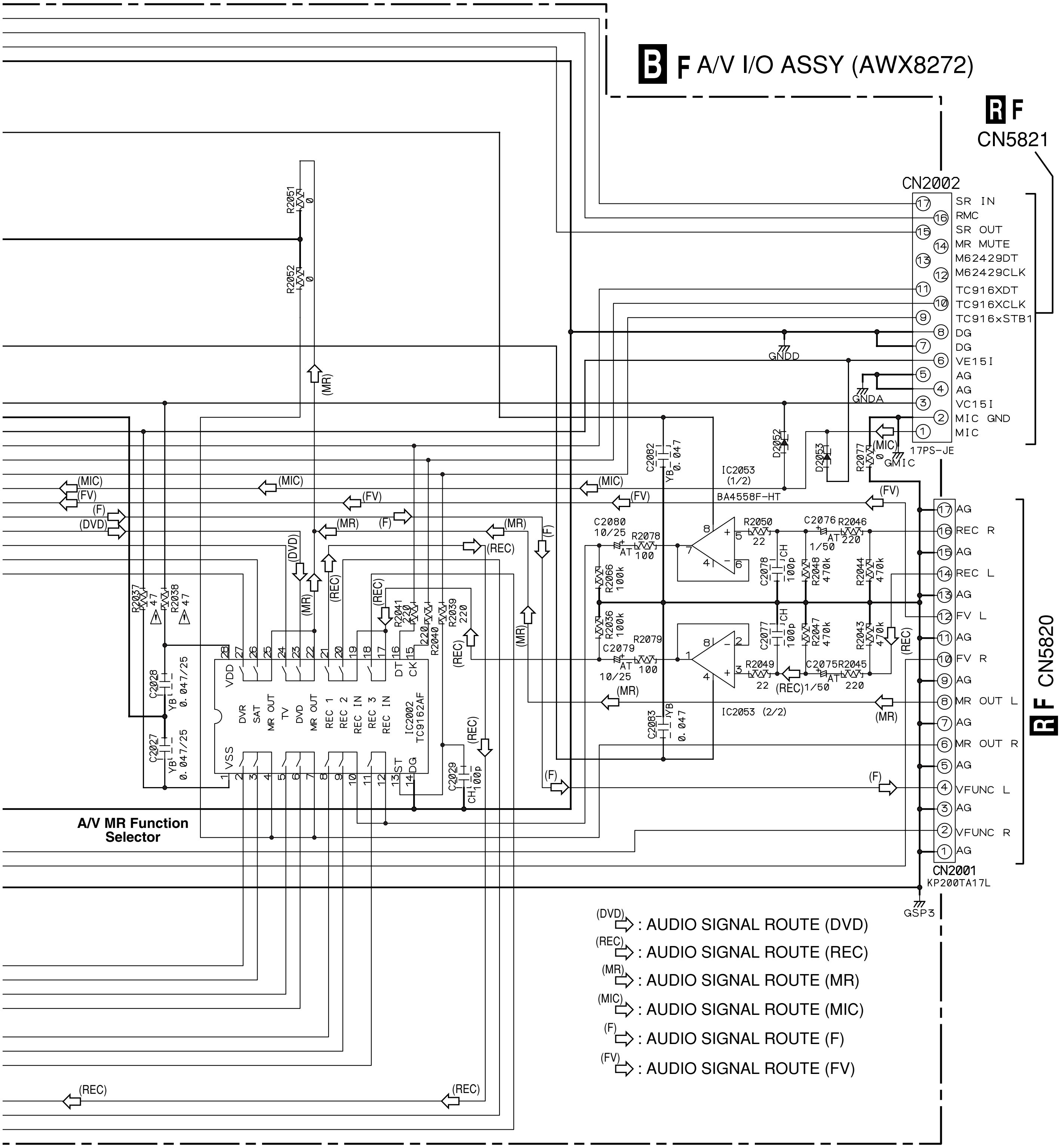
	/SF
Y1	6004 ZWNH1672G22-1-37J
Y2	6005 ZWNH1672G22-3-36J
Y3	6006 ZWNH1672G22-4-35J
Y4	6007 ZWNH1672G22-2-34J
Y5	6008 ZWNH1672G22-8-33J

3.2 A/V I/O ASSY



A
B
C
D
E
F
2051(1/2)
VKB1034
SR IN
2051 (2/2)
SR OUT
GS
(CHASSIS)
C2072 YB 1000p
C2071 CH 220p
C2081 YB 0.01
R9069 0
C2055 AT 47/25
C2056 AT 47/25
R2059 47
R2060 47
JA2001
AKB7073
(DVD)
DVD/LD L
DVD/LD R
TV/DVD L
TV/DVD R
SAT L
SAT R
C2001 CH 220p
C2002 CH 220p
C2003 CH 220p
C2004 CH 220p
C2005 CH 220p
C2006 CH 220p
R2001 1M
R2002 1M
R2003 220
R2004 220
R2005 1M
R2006 1M
R2007 220
R2008 220
R2009 1M
R2010 1M
R2011 220
R2012 220
(MIC)
(FV)
(F)
(DVD)
2002 (1/2)
AKB7075
DVR REC L
DVR REC R
(REC)
C2019 0.01 YB
C2007 CH 220p
C2008 CH 220p
R2013 1k
R2014 1k
2002 (2/2)
DVR PLAY L
DVR PLAY R
C2009 CH 220p
C2010 CH 220p
R2015 1M
R2016 1M
R2017 220
R2018 220
C2020 0.01 YB
2003 (1/2)
VCR2 REC L
VCR2 REC R
C2011 CH 220p
C2012 CH 220p
R2019 1k
R2020 1k
2003 (2/2)
VCR2 PLAY L
VCR2 PLAY R
C2013 CH 220p
C2014 CH 220p
R2021 1M
R2022 1M
R2023 220
R2024 220
C2021 0.01 YB
2004 (1/2)
VCR3 REC L
VCR3 REC R
C2015 CH 220p
C2016 CH 220p
R2025 1k
R2026 1k
2004 (2/2)
VCR3 PLAY L
VCR3 PLAY R
C2017 CH 220p
C2018 CH 220p
R2027 1M
R2028 1M
R2029 220
R2030 220
C2022 0.01 YB
GS (CHASSIS)
R2031 47
R2032 47
C2024 YB 0.047/25
C2023 YB 0.047/25
VDD
VSS
DVD
TV
SAT
DVR
VIDEO FUNC
VCR2
VCR3
VIDEO FUNC
FRONT V
MIC
VIDEO FUNC
DT
CK
ST
DG
IC2001
TC9164AF
A/V Function Selector
R2035
R2034 220×2
R2033 220
C2025 100p CH
B F

B F A/V I/O ASSY (AWX8272)


R F
CN5821
CN2002
17 SR IN
16 RMC
15 SR OUT
14 MR MUTE
13 M62429DT
12 M62429CLK
11 TC916XDT
10 TC916XCLK
9 TC916xSTB1
8 DG
7 DG
6 VE15I
5 AG
4 AG
3 VC15I
2 MIC GND
1 MIC
17PS-JE
GNDD
GNDA
GMIC
R2051 0
R2052 0
R2037 47
R2038 47
C2028 YB 0.047/25
C2027 YB 0.047/25
C2082 YB 0.047
C2083 JYB 0.047
D2052
D2053
R2077 0
IC2053 (1/2)
BA4558F-HT
IC2053 (2/2)
C2080 10/25 AT
C2079 10/25 AT
R2078 100
R2079 100
R2066 100k
R2036 100k
R2050 22
R2049 22
C2076 1/50 AT
C2075 1/50 AT
R2046 220
R2045 220
C2078 CH 100p
C2077 CH 100p
R2048 470k
R2047 470k
R2044 470k
R2043 470k
R2041 220
R2040 220
R2039 220
C2029 CH 100p
IC2002
TC9162AF
VDD
VSS
DVR
SAT
MR OUT
TV
DVD
MR OUT
REC 1
REC 2
REC IN
REC 3
REC IN
DT
CK
ST
DG
A/V MR Function Selector
R F CN5820
CN2001
KP200TA17L
17 AG
16 REC R
15 AG
14 REC L
13 AG
12 FV L
11 AG
10 FV R
9 AG
8 MR OUT L
7 AG
6 MR OUT R
5 AG
4 VFUNC L
3 AG
2 VFUNC R
1 AG
GSP3
(MIC)
(FV)
(F)
(DVD)
(MR)
(REC)

(DVD) ⇨ : AUDIO SIGNAL ROUTE (DVD)
(REC) ⇨ : AUDIO SIGNAL ROUTE (REC)
(MR) ⇨ : AUDIO SIGNAL ROUTE (MR)
(MIC) ⇨ : AUDIO SIGNAL ROUTE (MIC)
(F) ⇨ : AUDIO SIGNAL ROUTE (F)
(FV) ⇨ : AUDIO SIGNAL ROUTE (FV)

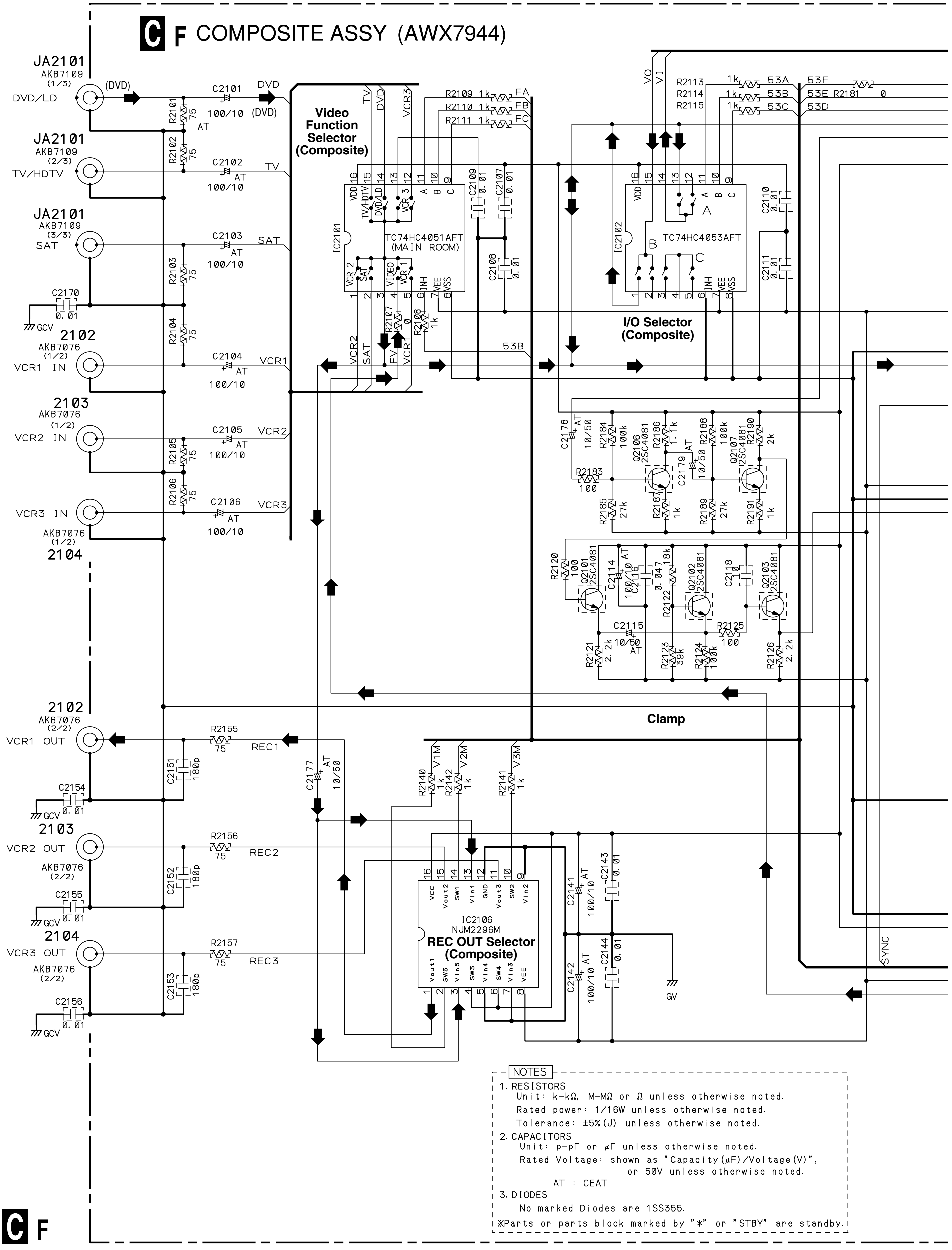
NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   AT:CEAT, JQ:CEJQ
3. DIODES
   No marked Diodes are 1SS355.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

B F

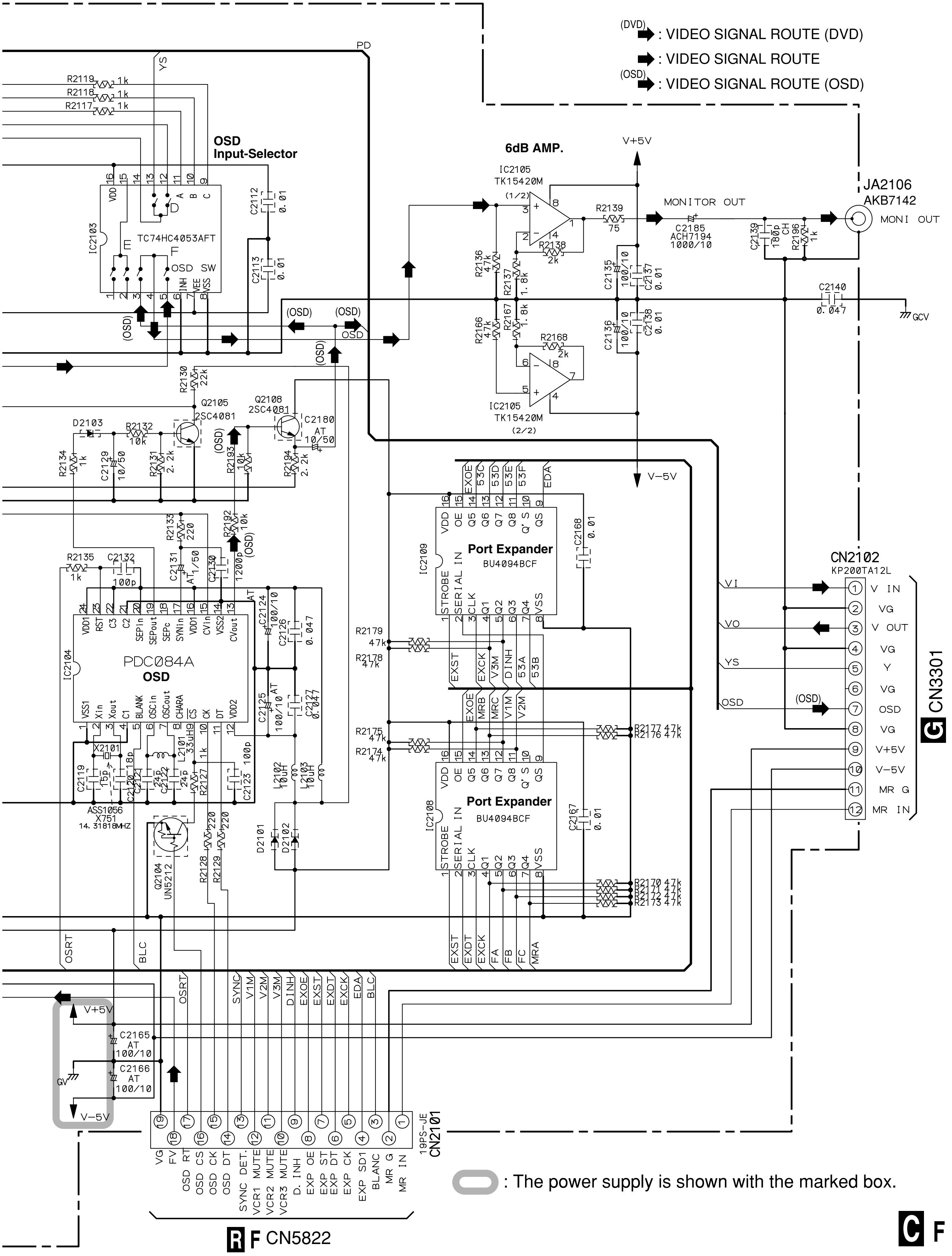
3.3 COMPOSITE ASSY


C F COMPOSITE ASSY (AWX7944)
JA2101 AKB7109 (1/3) DVD/LD
(DVD)
JA2101 AKB7109 (2/3) TV/HDTV
JA2101 AKB7109 (3/3) SAT
2102 AKB7076 (1/2) VCR1 IN
2103 AKB7076 (1/2) VCR2 IN
VCR3 IN AKB7076 (1/2) 2104
2102 AKB7076 (2/2) VCR1 OUT
2103 VCR2 OUT AKB7076 (2/2)
2104 VCR3 OUT AKB7076 (2/2)
GCV
R2101 75 AT
R2102 75
R2103 75
R2104 75
R2105 75
R2106 75
C2101 100/10 DVD (DVD)
C2102 AT 100/10 TV
C2103 AT 100/10 SAT
C2104 AT 100/10 VCR1
C2105 AT 100/10 VCR2
C2106 AT 100/10 VCR3
C2170 0.01
Video Function Selector (Composite)
TV DVD VCR3
R2109 1k FA
R2110 1k FB
R2111 1k FC
IC2101 TC74HC4051AFT (MAIN ROOM)
VDD TV/HDTV DVD/LD VCR 3 A B C
VCR 2 SAT VIDEO VCR 1 INH VEE VSS
C2109 0.01
C2107 0.01
C2108 0.01
R2107 0
R2108 1k
VCR2 SAT FV VCR1
53B
VO VI
R2113 1k 53A 53F
R2114 1k 53B 53E R2181 0
R2115 1k 53C 53D
IC2102 TC74HC4053AFT
A B C
C2110 0.01
C2111 0.01
I/O Selector (Composite)
C2178 AT 10/50
R2184 100k
Q2106 2SC4081
R2186 1.1k
R2188 100k
C2179 AT 10/50
Q2107 2SC4081
R2190 2k
R2183 100
R2185 27k
R2187 1k
R2189 27k
R2191 1k
R2120 100
Q2101 2SC4081
C2114 100/10 AT
C2116 0.047
R2122 18k
Q2102 2SC4081
C2118 10
Q2103 2SC4081
C2115 10/50 AT
R2125 100
R2121 2.2k
R2123 39k
R2124 100k
R2126 2.2k
Clamp
R2155 75 REC1
R2156 75 REC2
R2157 75 REC3
C2151 180p
C2152 180p
C2153 180p
C2154 0.01
C2155 0.01
C2156 0.01
C2177 AT 10/50
V1M V2M V3M
R2140 1k
R2142 1k
R2141 1k
IC2106 NJM2296M
REC OUT Selector (Composite)
VCC Vout2 SW1 Vin1 GND Vout3 SW2 Vin2
Vout1 SW5 Vin5 SW3 Vin4 SW4 Vin3 VEE
C2141 AT 100/10
C2143 0.01
C2142 AT 100/10
C2144 0.01
GV
SYNC
C F

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)",
   or 50V unless otherwise noted.
   AT : CEAT
3. DIODES
   No marked Diodes are 1SS355.

※Parts or parts block marked by "*" or "STBY" are standby.


PD
YS
R2119 1k
R2118 1k
R2117 1k
OSD
Input-Selector
IC2103
TC74HC4053AFT
VDD
A B C
D E F
OSD SW
INH VEE VSS
C2112 0.01
C2113 0.01
(OSD)
OSD
6dB AMP.
IC2105
TK15420M
(1/2)
(2/2)
V+5V
V−5V
R2139 75
MONITOR OUT
C2185 ACH7194 1000/10
R2138 2k
R2136 47k
R2137 1.8k
R2166 47k
R2167 1.8k
R2168 2k
C2135 100/10
C2137 0.01
C2136 100/10
C2138 0.01
C2139 180p CH
R2196 1k
C2140 0.047
GCV
JA2106
AKB7142
MONI OUT
R2130 22k
Q2105 2SC4081
Q2108 2SC4081
C2180 AT 10/50
D2103
R2132 10k
R2134 1k
C2129 10/50
R2131 2.2k
R2193 10k
R2194 2.2k
R2133 220
R2192 10k
C2131 AT 1/50
C2130 1200p
R2135 1k
C2132 100p
IC2104
PDC084A
OSD
VDD1 RST C3 C2 SEPin SEPout SEPc SYNin VDD1 CVin VSS2 CVout
VSS1 Xin Xout C1 BLANK OSCin OSCout CHARA CS CK DT VDD2
C2124 AT 100/10
C2126 0.047
C2125 AT 100/10
C2127 0.047
X2101
C2119 15p
C2120 18p
C2121
C2122 24p
L2101 33uH
R2127 1k
C2123 100p
L2102 10uH
L2103 10uH
ASS1056 X751 14.31818MHZ
Q2104 UN5212
R2128 220
R2129 220
D2101
D2102
IC2109
Port Expander
BU4094BCF
VDD OE Q5 Q6 Q7 Q8 Q'S QS
STROBE SERIAL IN CLK Q1 Q2 Q3 Q4 VSS
EXOE 53C 53D 53E 53F EDA
C2168 0.01
R2179 47k
R2178 47k
EXST EXCK V3M DINH 53A 53B
EXOE MRB MRC V1M V2M
R2175 47k
R2174 47k
R2177 47k
R2176 47k
IC2108
C2167 0.01
R2170 47k
R2171 47k
R2172 47k
R2173 47k
EXST EXDT EXCK FA FB FC MRA
CN2102
KP200TA12L
VI VO YS OSD
1 V IN
2 VG
3 V OUT
4 VG
5 Y
6 VG
7 OSD
8 VG
9 V+5V
10 V−5V
11 MR G
12 MR IN
G CN3301
OSRT BLC
V+5V
C2165 AT 100/10
C2166 AT 100/10
GV
V−5V
OSRT SYNC V1M V2M V3M DINH EXOE EXST EXDT EXCK EDA BLC
19PS-JE
CN2101
19 VG
18 FV
17 OSD RT
16 OSD CS
15 OSD CK
14 OSD DT
13 SYNC DET.
12 VCR1 MUTE
11 VCR2 MUTE
10 VCR3 MUTE
9 D. INH
8 EXP OE
7 EXP ST
6 EXP DT
5 EXP CK
4 EXP SD1
3 BLANC
2 MR G
1 MR IN
R F CN5822

(DVD) ➡ : VIDEO SIGNAL ROUTE (DVD)

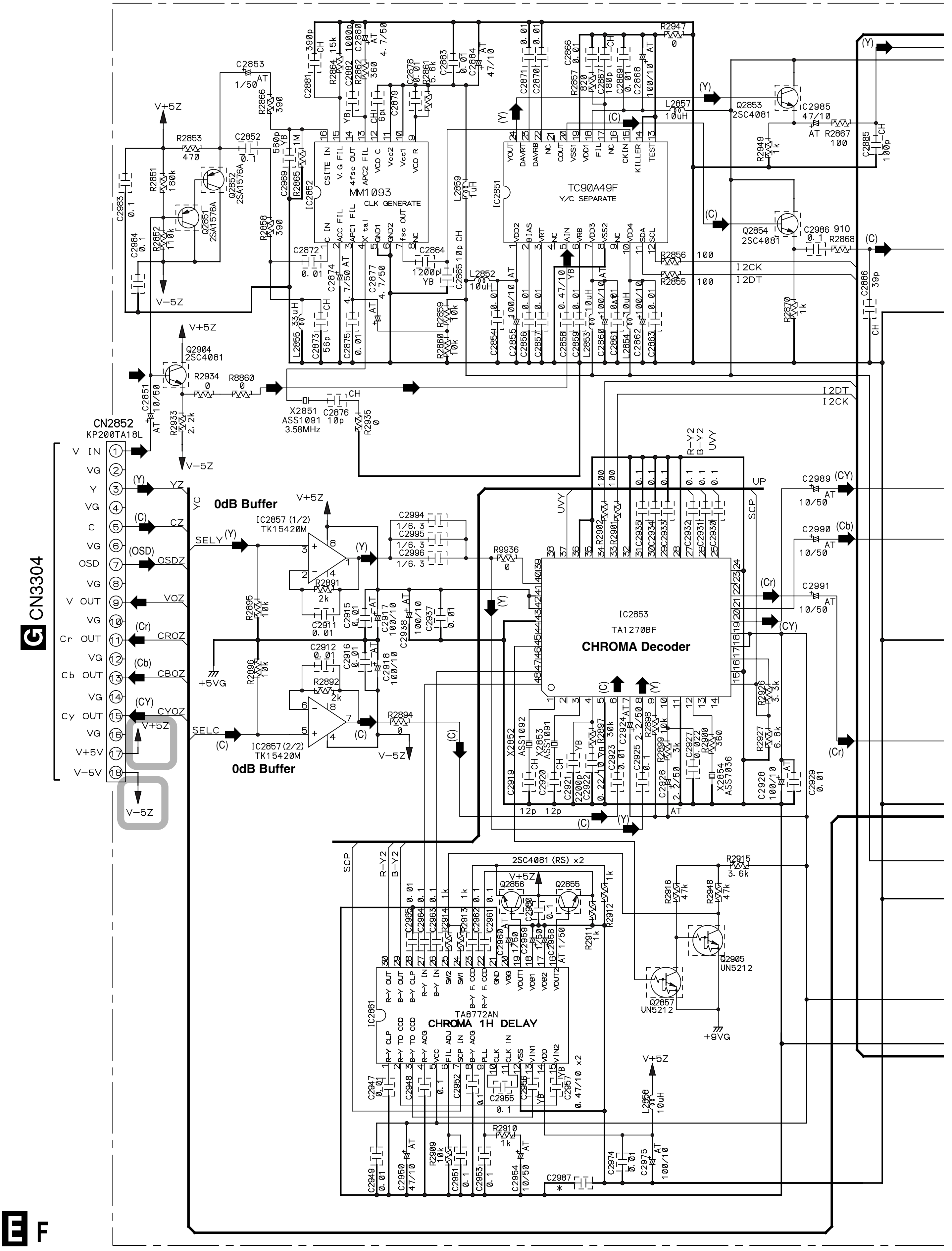
➡ : VIDEO SIGNAL ROUTE

(OSD) ➡ : VIDEO SIGNAL ROUTE (OSD)

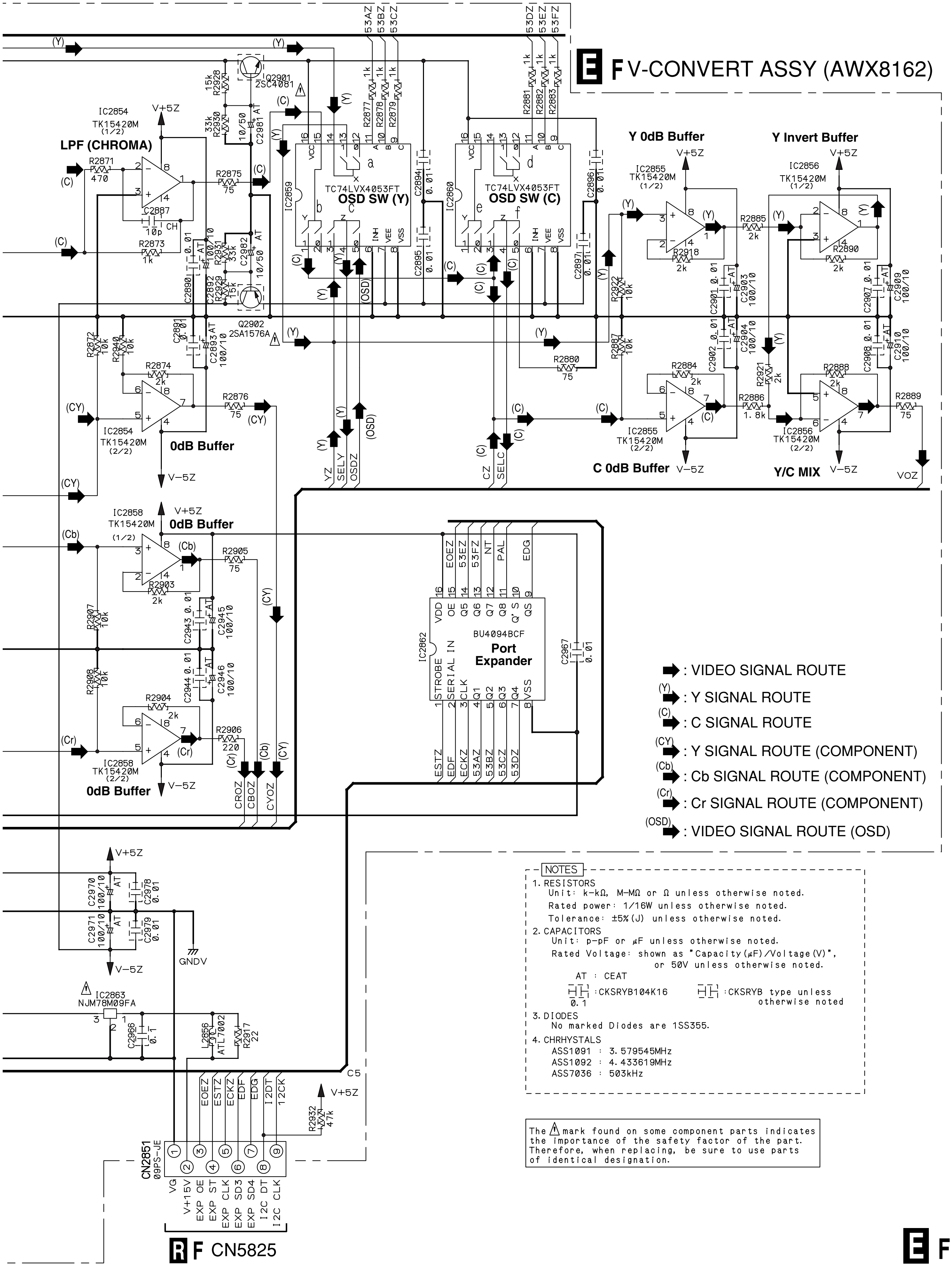
▭ : The power supply is shown with the marked box.

C F

3.4 V-CONVERT ASSY


CN3304
CN2852
KP200TA18L
V IN
VG
Y
VG
C
VG
OSD
VG
V OUT
VG
Cr OUT
VG
Cb OUT
VG
Cy OUT
VG
V+5V
V−5V
V+5Z
V−5Z
YZ
CZ
OSDZ
VOZ
CROZ
CBOZ
CYOZ
SELY
SELC
0dB Buffer
IC2857 (1/2)
TK15420M
IC2857 (2/2)
TK15420M
+5VG
Q2904
2SC4081
Q2851
2SA1576A
Q2852
2SA1576A
X2851
ASS1091
3.58MHz
IC2852
MM1093
CLK GENERATE
IC2851
TC90A49F
Y/C SEPARATE
Q2853
2SC4081
Q2854
2SC4081
I2CK
I2DT
IC2853
TA1270BF
CHROMA Decoder
R−Y2
B−Y2
UVY
UP
SCP
X2852
ASS1092
X2853
ASS1091
X2854
ASS7036
IC2861
TA8772AN
CHROMA 1H DELAY
2SC4081 (RS) x2
Q2856
Q2855
Q2857
UN5212
Q2905
UN5212
+9VG
(Y)
(C)
(Cr)
(Cb)
(CY)
(OSD)
G
E
F

E F V-CONVERT ASSY (AWX8162)


53AZ
53BZ
53CZ
53DZ
53EZ
53FZ
(Y)
(C)
(CY)
(Cb)
(Cr)
(OSD)
Q2901
2SC4081
Q2902
2SA1576A
R2928 15k
R2930 33k
C2981 AT 10/50
C2982 AT 10/50
R2931 33k
R2929 15k
C2892 100/10 AT
C2890 0.01
IC2854
TK15420M
(1/2)
(2/2)
V+5Z
V-5Z
LPF (CHROMA)
R2871 470
R2875 75
C2887 10p CH
R2873 1k
R2872 10k
R2940 10k
C2891 0.01
C2893 AT 100/10
R2874 2k
R2876 75
0dB Buffer
R2877 1k
R2878 1k
R2879 1k
R2881 1k
R2882 1k
R2883 1k
IC2859
TC74LVX4053FT
OSD SW (Y)
IC2860
TC74LVX4053FT
OSD SW (C)
VCC
INH
VEE
VSS
C2894 0.01
C2895 0.01
C2896 0.01
C2897 0.01
R2880 75
YZ
SELY
OSDZ
CZ
SELC
Y 0dB Buffer
Y Invert Buffer
IC2855
TK15420M
IC2856
TK15420M
R2885 2k
R2918 2k
R2890 2k
R2922 10k
R2887 10k
C2901 0.01
C2903 AT 100/10
C2902 0.01
C2904 AT 100/10
C2907 0.01
C2909 AT 100/10
C2908 0.01
C2910 AT 100/10
R2921 2k
R2884 2k
R2886 1.8k
R2888 2k
R2889 75
C 0dB Buffer
Y/C MIX
VOZ
IC2858
TK15420M
R2905 75
R2903 2k
R2907 10k
R2908 10k
C2943 0.01
C2945 AT 100/10
C2944 0.01
C2946 AT 100/10
R2904 2k
R2906 220
CROZ
CBOZ
CYOZ
IC2862
BU4094BCF
Port Expander
VDD
OE
Q5
Q6
Q7
Q8
Q'S
QS
STROBE
SERIAL IN
CLK
Q1
Q2
Q3
Q4
VSS
EOEZ
NT
PAL
EDG
ESTZ
EDF
ECKZ
C2967 0.01
C2970 AT 100/10
C2978 0.01
C2971 AT 100/10
C2979 0.01
GNDV
IC2863
NJM78M09FA
C2966 0.1
L2856 ATL7002
R2917 22
C5
R2932 47k
CN2851
09PS-JE
VG
V+15V
EXP OE
EXP ST
EXP CLK
EXP SD3
EXP SD4
I2C DT
I2C CLK
I2DT
I2CK
R F CN5825

➡ : VIDEO SIGNAL ROUTE

(Y) ➡ : Y SIGNAL ROUTE

(C) ➡ : C SIGNAL ROUTE

(CY) ➡ : Y SIGNAL ROUTE (COMPONENT)

(Cb) ➡ : Cb SIGNAL ROUTE (COMPONENT)

(Cr) ➡ : Cr SIGNAL ROUTE (COMPONENT)

(OSD) ➡ : VIDEO SIGNAL ROUTE (OSD)

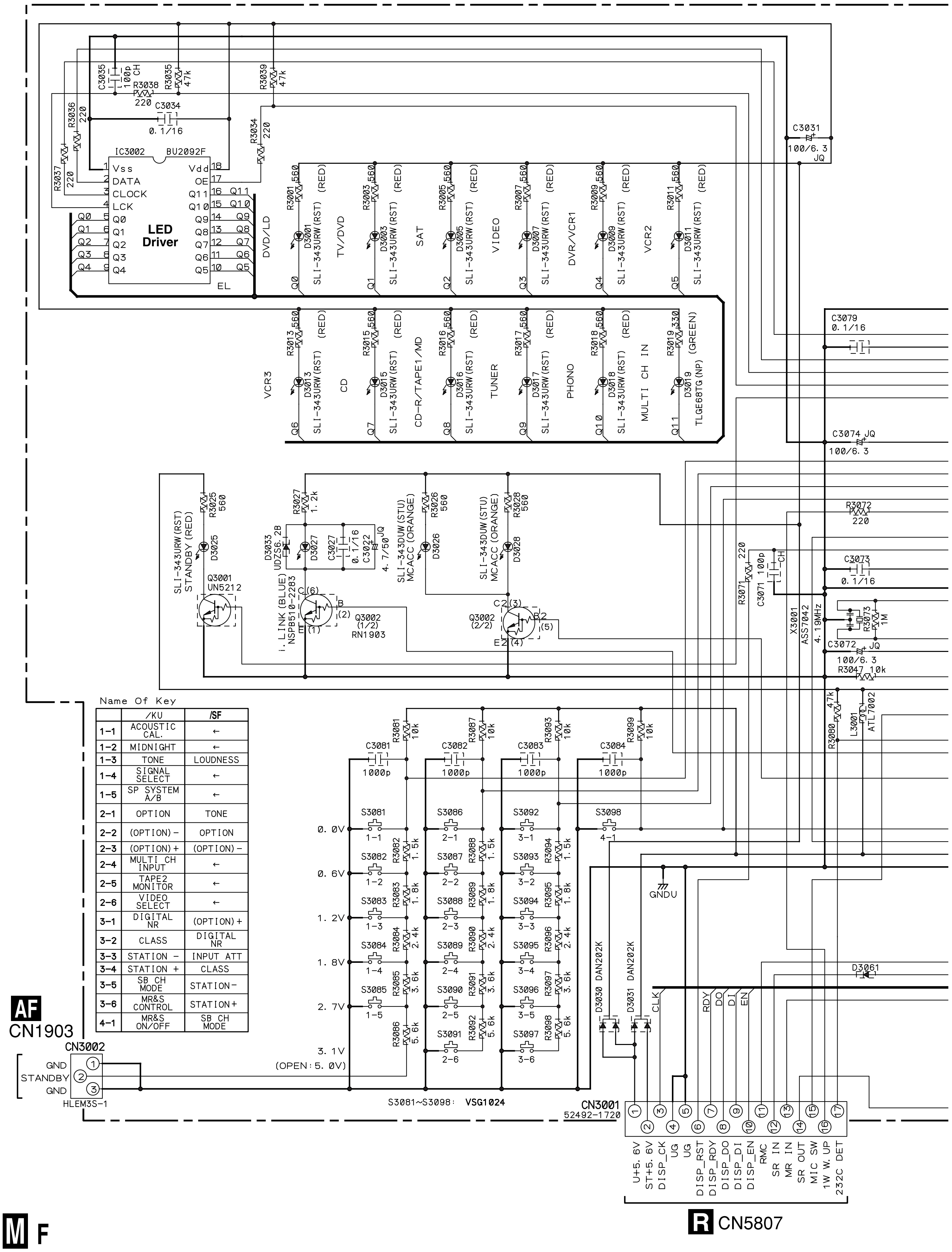
NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   AT : CEAT
   0.1 :CKSRYB104K16   :CKSRYB type unless otherwise noted
3. DIODES
   No marked Diodes are 1SS355.
4. CHRHYSTALS
   ASS1091 : 3.579545MHz
   ASS1092 : 4.433619MHz
   ASS7036 : 503kHz

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

E F

3.5 DISPLAY ASSY

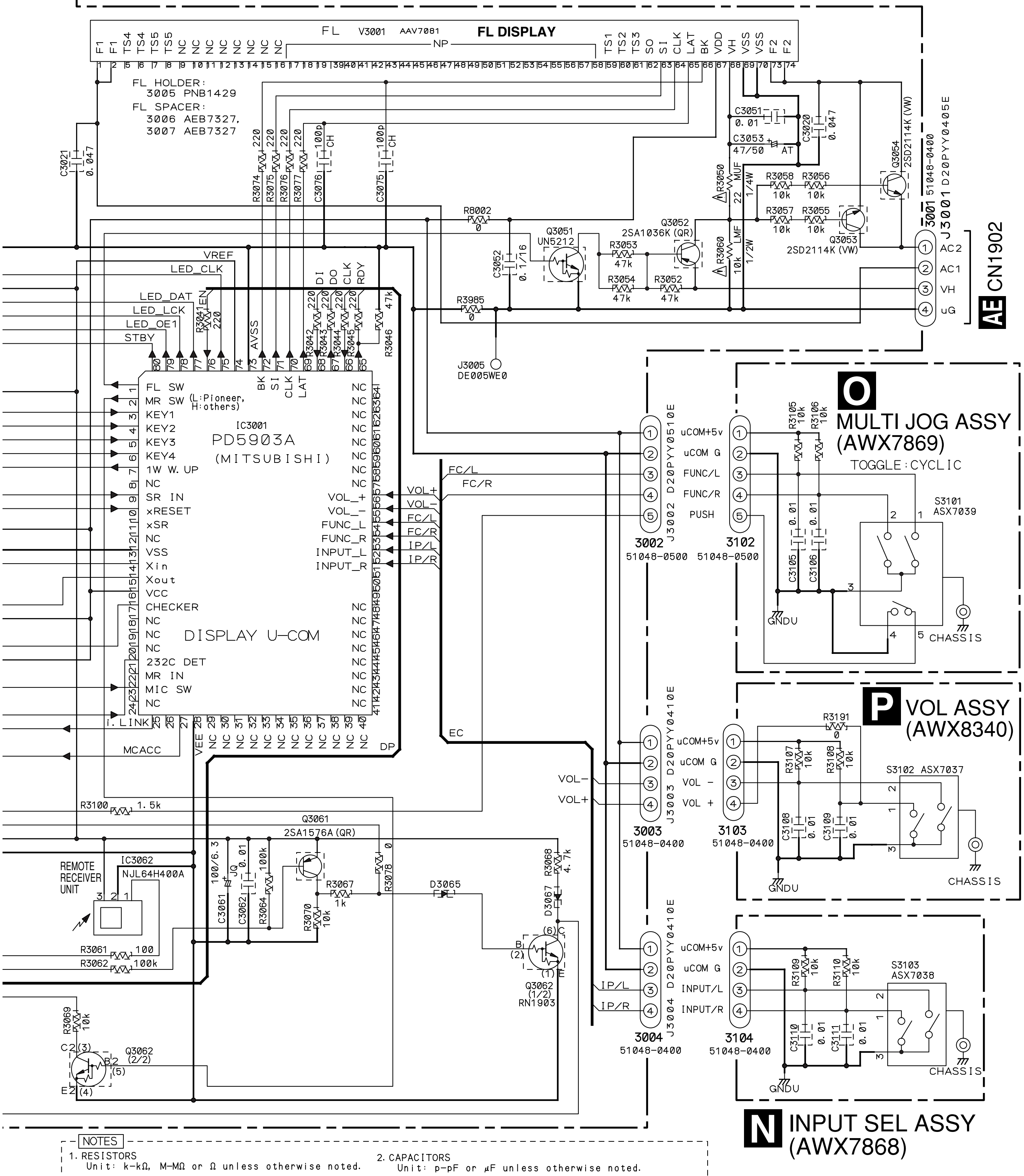

A
B
C
D
E
F
IC3002 BU2092F
LED Driver
Vss
DATA
CLOCK
LCK
Q0 Q1 Q2 Q3 Q4
Vdd
OE
Q11 Q10 Q9 Q8 Q7 Q6 Q5
EL
C3035 100p CH
R3035 47k
R3038 220
C3034 0.1/16
R3036 220
R3037 220
R3039 47k
R3034 220
C3031 100/6.3 JQ
DVD/LD
R3001 560 (RED) D3001 SLI-343URW(RST) TV/DVD
R3003 560 (RED) D3003 SLI-343URW(RST) SAT
R3005 560 (RED) D3005 SLI-343URW(RST) VIDEO
R3007 560 (RED) D3007 SLI-343URW(RST) DVR/VCR1
R3009 560 (RED) D3009 SLI-343URW(RST) VCR2
R3011 560 (RED) D3011 SLI-343URW(RST)
VCR3
R3013 560 (RED) D3013 SLI-343URW(RST) CD
R3015 560 (RED) D3015 SLI-343URW(RST) CD-R/TAPE1/MD
R3016 560 (RED) D3016 SLI-343URW(RST) TUNER
R3017 560 (RED) D3017 SLI-343URW(RST) PHONO
R3018 560 (RED) D3018 SLI-343URW(RST) MULTI CH IN
R3019 330 (GREEN) D3019 TLGE68TG(NP)
C3079 0.1/16
C3074 JQ 100/6.3
R3072 220
C3073 0.1/16
R3071 220
C3071 100p CH
X3001 ASS7042 4.19MHz
R3073 1M
C3072 JQ 100/6.3
R3047 10k
R3080 4.7k
L3001 ATL7002
R3025 560
D3025 SLI-343URW(RST) STANDBY(RED)
Q3001 UN5212
R3027 1.2k
D3033 UDZS6.2B
D3027 i.LINK(BLUE) NSPB510-2283
C3027 0.1/16
C3022 4.7/50 JQ
R3026 560
D3026 SLI-343DUW(STU) MCACC(ORANGE)
R3028 560
D3028 SLI-343DUW(STU) MCACC(ORANGE)
Q3002 (1/2) RN1903
Q3002 (2/2)
C(6) B (2) E(1)
C2(3) B2 (5) E2(4)
C3081 1000p R3081 10k
C3082 1000p R3087 10k
C3083 1000p R3093 10k
C3084 1000p R3099 10k
0.0V
0.6V
1.2V
1.8V
2.7V
3.1V (OPEN:5.0V)
S3081 1-1 S3082 1-2 S3083 1-3 S3084 1-4 S3085 1-5
R3082 1.5k R3083 1.8k R3084 2.4k R3085 3.6k R3086 5.6k
S3086 2-1 S3087 2-2 S3088 2-3 S3089 2-4 S3090 2-5 S3091 2-6
R3088 1.5k R3089 1.8k R3090 2.4k R3091 3.6k R3092 5.6k
S3092 3-1 S3093 3-2 S3094 3-3 S3095 3-4 S3096 3-5 S3097 3-6
R3094 1.5k R3095 1.8k R3096 2.4k R3097 3.6k R3098 5.6k
S3098 4-1
GNDU
D3030 DAN202K
D3031 DAN202K
CLK RDY DO DI EN
D3061
S3081~S3098: VSG1024
AF CN1903
CN3002
GND STANDBY GND
HLEM3S-1
CN3001 52492-1720
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰
U+5.6V
ST+5.6V
DISP_CK
UG
UG
DISP_RST
DISP_RDY
DISP_DO
DISP_DI
DISP_EN
RMC
SR IN
MR IN
SR OUT
MIC SW
1W W.UP
232C DET
R CN5807
M F

Name Of Key

	/KU	/SF
1-1	ACOUSTIC CAL.	←
1-2	MIDNIGHT	←
1-3	TONE	LOUDNESS
1-4	SIGNAL SELECT	←
1-5	SP SYSTEM A/B	←
2-1	OPTION	TONE
2-2	(OPTION) −	OPTION
2-3	(OPTION) +	(OPTION) −
2-4	MULTI CH INPUT	←
2-5	TAPE2 MONITOR	←
2-6	VIDEO SELECT	←
3-1	DIGITAL NR	(OPTION) +
3-2	CLASS	DIGITAL NR
3-3	STATION −	INPUT ATT
3-4	STATION +	CLASS
3-5	SB CH MODE	STATION −
3-6	MR&S CONTROL	STATION +
4-1	MR&S ON/OFF	SB CH MODE

MF DISPLAY ASSY (AWX8318)

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

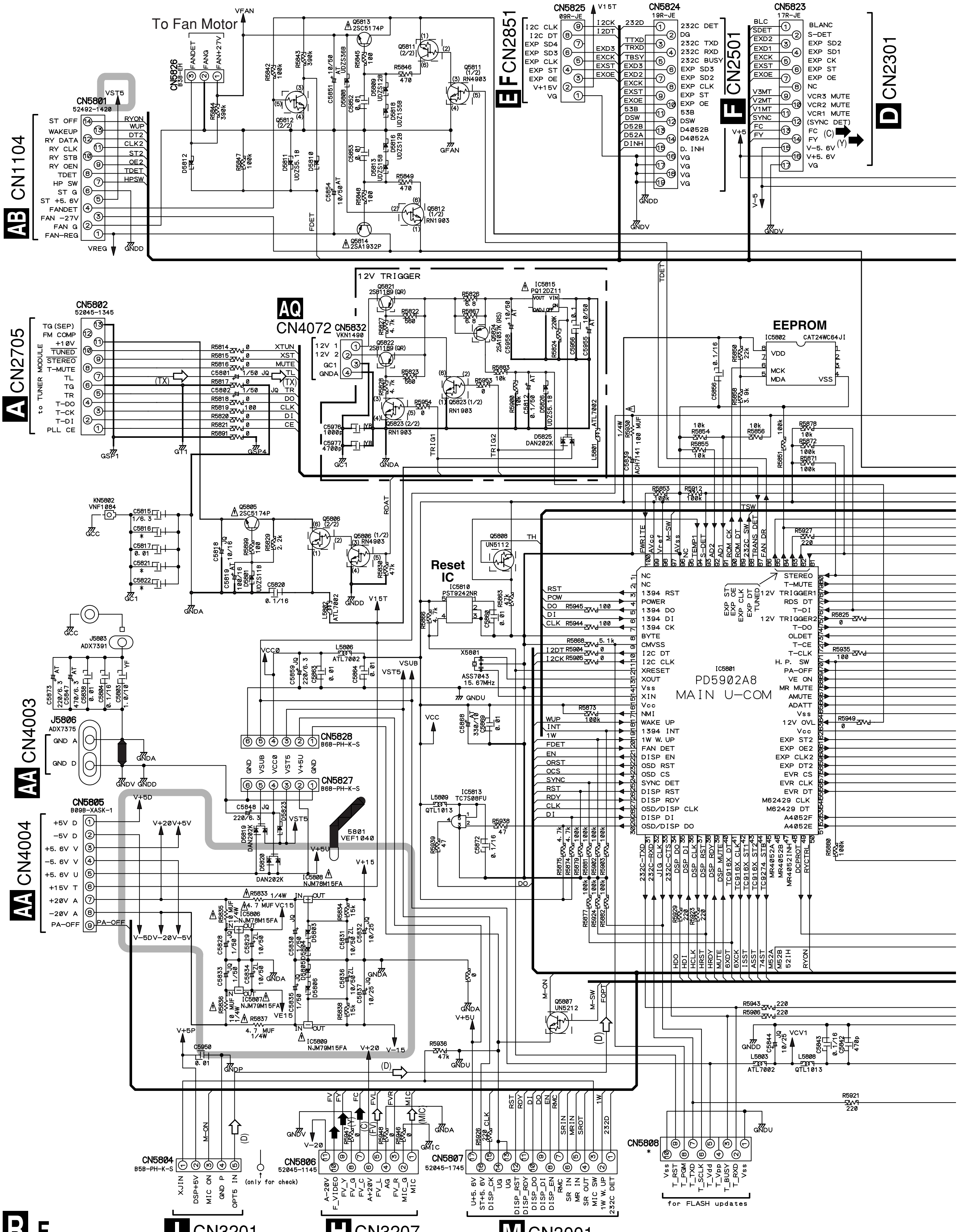

FL V3001 AAV7081 FL DISPLAY
NP
F1 F1 TS4 TS4 TS5 TS5 NC NC NC NC NC NC NC TS1 TS2 TS3 SO SI CLK LAT BK VDD VH VSS VSS F2 F2
FL HOLDER: 3005 PNB1429
FL SPACER: 3006 AEB7327, 3007 AEB7327
C3021 0.047
R3074 220
R3075 220
R3076 220
R3077 220
C3076 100p CH
C3075 100p CH
C3051 0.01
C3053 47/50 AT
C3020 0.047
R3050 22 1/4W MUF
R3060 10k LMF 1/2W
R3058 10k
R3056 10k
R3057 10k
R3055 10k
Q3054 2SD2114K (VW)
Q3053 2SD2114K (VW)
3001 51048-0400
J3001 D20PYY0405E
AC2 AC1 VH uG
AE CN1902
R8002 0
Q3051 UN5212
Q3052 2SA1036K (QR)
R3053 47k
R3054 47k
R3052 47k
C3052 0.1/16
R3985 0
J3005 DE005WE0
VREF
LED_CLK
LED_DAT
LED_LCK
LED_OE1
STBY
EN
R3041 220
AVSS
DI DO CLK RDY
R3042 220
R3043 220
R3044 220
R3045 220
R3046 47k
BK SI CLK LAT
IC3001 PD5903A (MITSUBISHI)
DISPLAY U-COM
FL SW
MR SW (L:Pioneer, H:others)
KEY1 KEY2 KEY3 KEY4
1W W. UP
NC
SR IN
xRESET
xSR
NC
VSS
Xin
Xout
VCC
CHECKER
NC NC NC
232C DET
MR IN
MIC SW
NC
i. LINK
VEE
VOL_+ VOL_− FUNC_L FUNC_R INPUT_L INPUT_R
VOL+ VOL− FC/L FC/R IP/L IP/R
EC
DP
MCACC
R3100 1.5k
REMOTE RECEIVER UNIT
IC3062 NJL64H400A
Q3061 2SA1576A (QR)
C3061 100/6.3
C3062 0.01 JQ
R3064 100k
R3067 1k
R3070 10k
R3078 0
D3065
R3068 4.7k
D3067
Q3062 (1/2) RN1903
R3061 100
R3062 100k
R3069 10k
Q3062 (2/2)
J3002 D20PYY0510E
3002 51048-0500
uCOM+5v uCOM G FUNC/L FUNC/R PUSH
3102 51048-0500
O MULTI JOG ASSY (AWX7869)
TOGGLE:CYCLIC
R3105 10k
R3106 10k
C3105 0.01
C3106 0.01
S3101 ASX7039
GNDU
CHASSIS
J3003 D20PYY0410E
3003 51048-0400
uCOM+5v uCOM G VOL − VOL +
3103 51048-0400
P VOL ASSY (AWX8340)
R3191 0
R3107 10k
R3108 10k
C3108 0.01
C3109 0.01
S3102 ASX7037
J3004 D20PYY0410E
3004 51048-0400
uCOM+5v uCOM G INPUT/L INPUT/R
3104 51048-0400
R3109 10k
R3110 10k
C3110 0.01
C3111 0.01
S3103 ASX7038
N INPUT SEL ASSY (AWX7868)

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
   LMF:RD1/2LMF, MUF:RD1/4MUF
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   JQ:CEJQ
   ⊣⊢ :CKSRYB type unless otherwise noted
3. DIODES
   No marked Diodes are 1SS355.

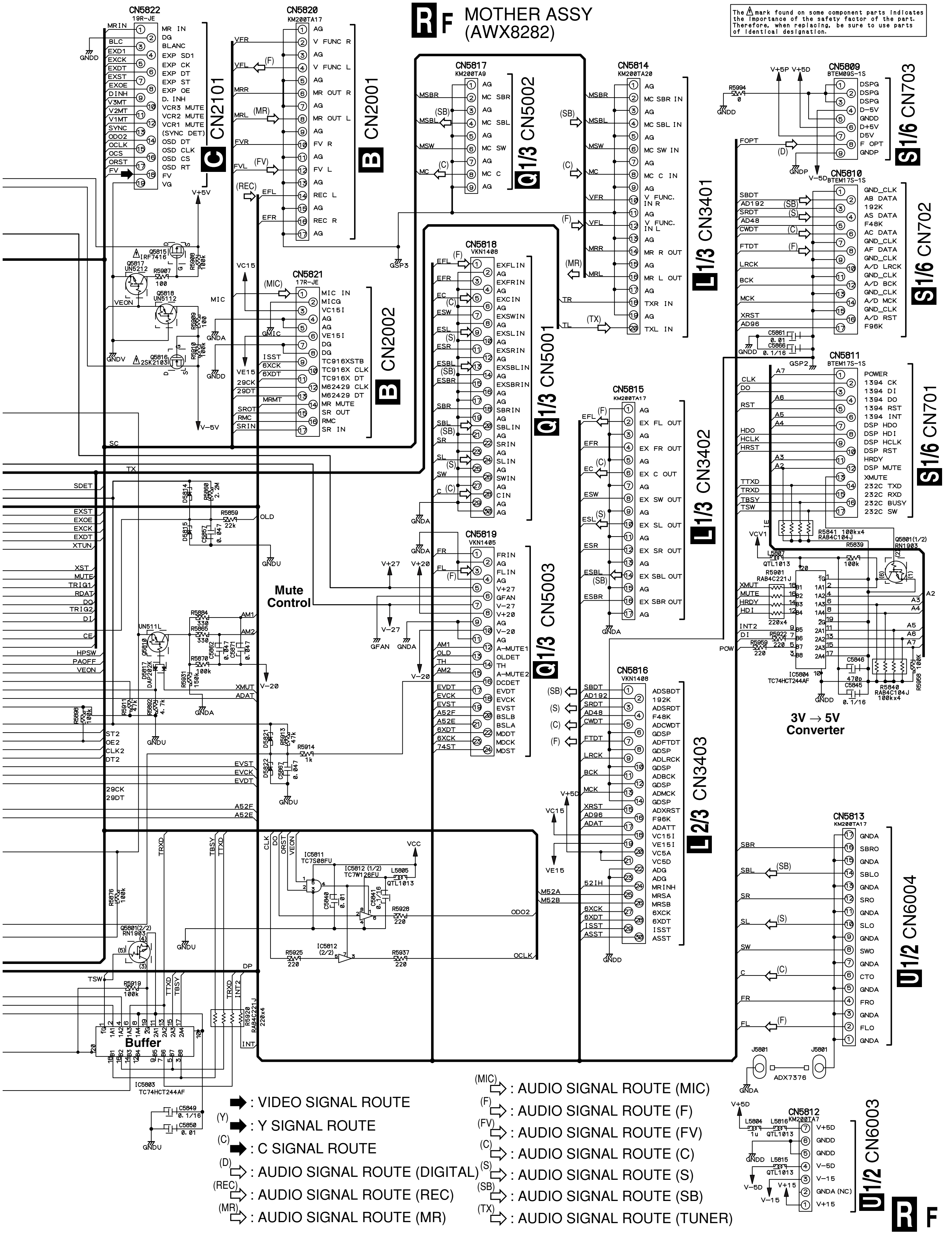
MF N O P

3.6 MOTHER ASSY


1
2
3
4
A
B
C
D
E
F
To Fan Motor
VFAN
CN5826
B3B-EH
FANDET
FANG
FAN+27V
CN5801
52492-1420
VST5
ST OFF
WAKEUP
RY DATA
RY CLK
RY STB
RY OEN
TDET
HP SW
ST G
ST +5.6V
FANDET
FAN -27V
FAN G
FAN-REG
RYON
WUP
DT2
CLK2
ST2
OE2
TDET
HPSW
VREG
GNDD
AB CN1104
Q5813 2SC5174P
Q5811 (2/2)
Q5811 (1/2) RN4903
Q5812 (2/2)
Q5812 (1/2) RN1903
Q5814 2SA1932P
GFAN
FDET
E CN2851
CN5825
09R-JE
V15T
I2C CLK
I2C DT
EXP SD4
EXP SD3
EXP CLK
EXP ST
EXP OE
V+15V
VG
I2CK
I2DT
EXD3
EXCK
EXST
EXOE
CN5824
19R-JE
232C DET
DG
232C TXD
232C RXD
232C BUSY
EXP SD3
EXP SD2
EXP CLK
EXP ST
EXP OE
53B
DSW
D4052B
D4052A
D. INH
VG
F CN2501
CN5823
17R-JE
BLC
SDET
EXD2
EXD1
EXCK
EXST
EXOE
V3MT
V2MT
V1MT
SYNC
FC
FY
BLANC
S-DET
EXP SD2
EXP SD1
EXP CK
EXP ST
EXP OE
NC
VCR3 MUTE
VCR2 MUTE
VCR1 MUTE
(SYNC DET)
FC
FY
V-5.6V
V+5.6V
VG
(C)
(Y)
D CN2301
GNDD
GNDV
CN5802
52045-1345
TG (SEP)
FM COMP
+10V
TUNED
STEREO
T-MUTE
TL
TG
TR
T-DO
T-CK
T-DI
PLL CE
to TUNER MODULE
A CN2705
XTUN
XST
MUTE
TL
TR
DO
CLK
DI
CE
(TX)
GSP1
GT1
GSP4
AQ CN4072
CN5832
VKN1490
12V 1
12V 2
GC1
GNDA
12V TRIGGER
Q5821 2SB1189(QR)
Q5822 2SB1189(QR)
Q5823 (2/2) RN1903
Q5823 (1/2) RN1903
Q5824 2SA1037K(RS)
IC5815 PQ12DZ11
D5825 DAN202K
TRIG1
TRIG2
L5801 ATL7002
ACH7141 100 MUF
TDET
EEPROM
IC5802
CAT24WC64JI
VDD
MCK
MDA
VSS
KN5802
VNF1084
GCC
Q5805 2SC5174P
Q5806 (2/2)
Q5806 (1/2) RN4903
RDAT
V15T
Q5808 UN5112
TH
Reset IC
IC5810 PST9242NR
RST
POW
DO
DI
CLK
I2DT
I2CK
X5801
ASS7043 15.67MHz
GNDU
J5803 ADX7391
J5806 ADX7375
GND A
GND D
AA CN4003
GNDA
GNDV
GNDD
VCC0
L5806 ATL7002
VST5
VSUB
CN5828
B6B-PH-K-S
CN5827
B6B-PH-K-S
GND
VSUB
VCC0
VST5
V+5U
GND
CN5805
B09B-XASK-1
+5V D
-5V D
+5.6V V
-5.6V V
+5.6V U
+15V T
+20V A
-20V A
PA-OFF
AA CN4004
V+5D
V+20V+5V
V-5DV-20V-5V
D5819 DAN202K
D5820 DAN202K
5801 VEF1040
IC5808 NJM78M15FA
V+5U
V+15
IC5806 NJM78M15FA
IC5807 NJM79M15FA
IC5809 NJM79M15FA
VC15
VE15
V+20
V-15
V+5P
GNDP
(D)
IC5801
PD5902A8
MAIN U-COM
NC
1394 RST
POWER
1394 DO
1394 DI
1394 CK
BYTE
CMVSS
I2C DT
I2C CLK
XRESET
XOUT
Vss
XIN
Vcc
NMI
WAKE UP
1394 INT
1W W. UP
FAN DET
DISP EN
OSD RST
OSD CS
SYNC DET
DISP RST
DISP RDY
OSD/DISP CLK
DISP DI
OSD/DISP DO
STEREO
T-MUTE
12V TRIGGER1
RDS DT
T-DI
12V TRIGGER2
T-DO
OLDET
T-CE
T-CLK
H. P. SW
PA-OFF
VE ON
MR MUTE
AMUTE
ADATT
Vss
12V OVL
Vcc
EXP ST2
EXP OE2
EXP CLK2
EXP DT2
EVR CS
EVR CLK
EVR DT
M62429 CLK
M62429 DT
A4052F
A4052E
FWRITE
AVcc
Vref
M-SW
AVss
NC
TEMP1
S-DET
AD2
AD1
ROM CK
ROM DT
232C SW
TRANS DET
FAN DR
TSW
EXP ST
EXP OE
EXP CLK
EXP DT
TUNED
232C-TXD
232C-RXD
JIG CLK
232C-CTS
DSP DO
DSP DI
DSP CLK
DSP RST
DSP RDY
DSP MUTE
TC916X DT
TC916X CLK
TC916X ST
TC9274 ST
MR4052A
MR4052B
MR4052INH
DCPROT
RYCTRL
HDO
HDI
HCLK
HRST
HRDY
MUTE
6XDT
6XCK
ISST
ASST
74ST
M52A
M52B
52IH
RYON
WUP
INT
1W
FDET
EN
ORST
OCS
SYNC
RST
RDY
CLK
DI
DO
L5809 QTL1013
IC5813 TC7S08FU
VCC
M-ON
M-SW
FOPT
Q5807 UN5212
V+5U
GNDU
VCV1
L5803 ATL7002
L5808 QTL1013
CN5804
B5B-PH-K-S
XJIN
DSP+5V
MIC ON
GND P
OPT5 IN
M-ON
(only for check)
I CN3201
CN5806
52045-1145
A-20V
F_VIDEO
FV_Y
FV_C
A+20V
FV_L
AG
FV_R
MIC
FV
FY
FC
FVL
FVR
MIC
V-20
GNDV
GNDA
GMIC
H CN3207
CN5807
52045-1745
U+5.6V
ST+5.6V
DISP_CK
UG
UG
DISP_RDY
DISP_DO
DISP_DI
DISP_EN
RMC
SR IN
MR IN
SR OUT
MIC SW
1W W. UP
232C DET
RST
RDY
DI
DO
EN
RMC
SRIN
MRIN
SROT
1W
232D
M CN3001
CN5808
Vss
T_RST
T_PGM
T_TXD
T_SCLK
T_Vdd
T_Vpp
T_BUSY
T_RXD
Vss
for FLASH updates
R F

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

R F MOTHER ASSY (AWX8282)



CN5822 19R-JE
MR IN
DG
BLANC
EXP SD1
EXP CK
EXP DT
EXP ST
EXP OE
D. INH
VCR3 MUTE
VCR2 MUTE
VCR1 MUTE
(SYNC DET)
OSD DT
OSD CLK
OSD CS
OSD RT
FV
VG
C CN2101
CN5820 KM200TA17
V FUNC R
V FUNC L
MR OUT R
MR OUT L
FV R
FV L
REC L
REC R
B CN2001
CN5821 17R-JE
MIC IN
MICG
VC15I
VE15I
TC916XSTB
TC916X CLK
TC916X DT
M62429 CLK
M62429 DT
MR MUTE
SR OUT
RMC
SR IN
B CN2002
CN5817 KM200TA9
MC SBR
MC SBL
MC SW
MC C
Q1/3 CN5002
CN5814 KM200TA20
MC SBR IN
MC SBL IN
MC SW IN
MC C IN
V FUNC. IN R
V FUNC. IN L
MR R OUT
MR L OUT
TXR IN
TXL IN
L1/3 CN3401
CN5818 VKN1408
EXFLIN
EXFRIN
EXCIN
EXSWIN
EXSLIN
EXSRIN
EXSBLIN
EXSBRIN
SBRIN
SBLIN
SRIN
SLIN
SWIN
CIN
Q1/3 CN5001
CN5819 VKN1405
FRIN
FLIN
V+27
GFAN
V-27
V+20
V-20
A-MUTE1
OLDET
TH
A-MUTE2
DCDET
EVDT
EVCK
EVST
BSLB
BSLA
MDDT
MDCK
MDST
Q1/3 CN5003
Mute Control
CN5815 KM200TA17
EX FL OUT
EX FR OUT
EX C OUT
EX SW OUT
EX SL OUT
EX SR OUT
EX SBL OUT
EX SBR OUT
L1/3 CN3402
CN5816 VKN1408
ADSBDT
192K
ADSRDT
F48K
ADCWDT
GDSP
ADFTDT
ADLRCK
ADBCK
ADMCK
ADXRST
F96K
ADATT
VC15I
VE15I
VC5A
VC5D
ADG
MRINH
MRSA
MRSB
6XCK
6XDT
ISST
ASST
L2/3 CN3403
CN5809 BTEM09S-1S
DSPG
D-5V
GNDD
D+5V
D5V
F OPT
GNDP
S1/6 CN703
CN5810 BTEM17S-1S
GND_CLK
AB DATA
192K
AS DATA
F48K
AC DATA
AF DATA
A/D LRCK
A/D BCK
A/D MCK
A/D RST
F96K
S1/6 CN702
CN5811 BTEM17S-1S
POWER
1394 CK
1394 DI
1394 DO
1394 RST
1394 INT
DSP HDO
DSP HDI
DSP HCLK
DSP RST
HRDY
DSP MUTE
XMUTE
232C TXD
232C RXD
232C BUSY
232C SW
S1/6 CN701
IC5804 TC74HCT244AF
3V → 5V Converter
CN5813 KM200TA17
GNDA
SBRO
SBLO
SRO
SLO
SWO
CTO
FRO
FLO
U1/2 CN6004
J5801
ADX7376
CN5812 KM200TA7
V+5D
GNDD
V-5D
V-15
GNDA (NC)
V+15
U1/2 CN6003
Q5815 IRF7416
Q5817 UN5212
Q5818 UN5112
Q5816 2SK2103
Q5810 UN511L
D5817 DAP202K
IC5811 TC7S08FU
IC5812 (1/2) TC7W126FU
IC5812 (2/2)
Q5801(2/2) RN1903
Q5801(1/2) RN1903
Buffer
IC5803 TC74HCT244AF
RF

➡ : VIDEO SIGNAL ROUTE

(Y) ➡ : Y SIGNAL ROUTE

(C) ➡ : C SIGNAL ROUTE

(D) ⇨ : AUDIO SIGNAL ROUTE (DIGITAL)

(REC) ⇨ : AUDIO SIGNAL ROUTE (REC)

(MR) ⇨ : AUDIO SIGNAL ROUTE (MR)

(MIC) ⇨ : AUDIO SIGNAL ROUTE (MIC)

(F) ⇨ : AUDIO SIGNAL ROUTE (F)

(FV) ⇨ : AUDIO SIGNAL ROUTE (FV)

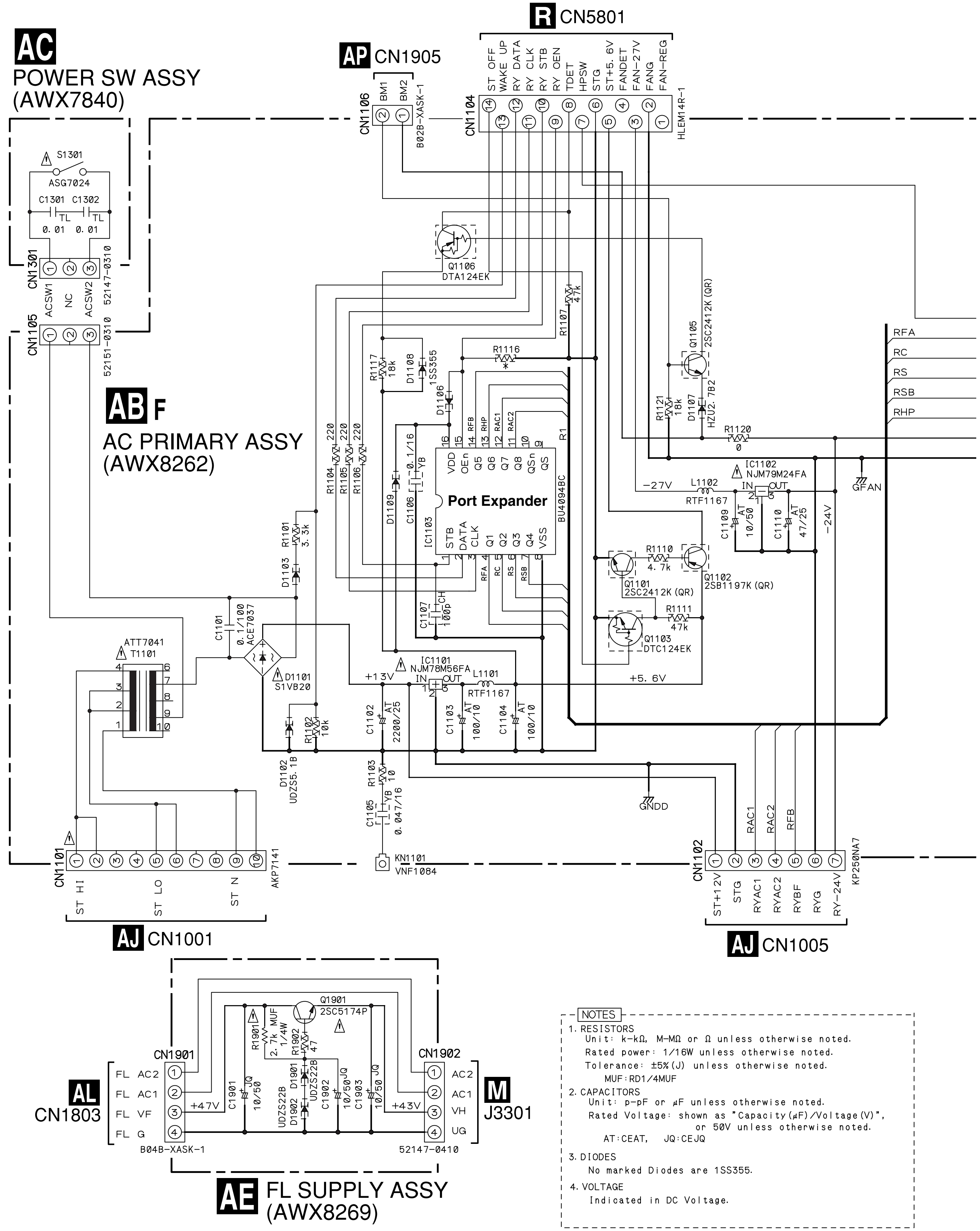
(C) ⇨ : AUDIO SIGNAL ROUTE (C)

(S) ⇨ : AUDIO SIGNAL ROUTE (S)

(SB) ⇨ : AUDIO SIGNAL ROUTE (SB)

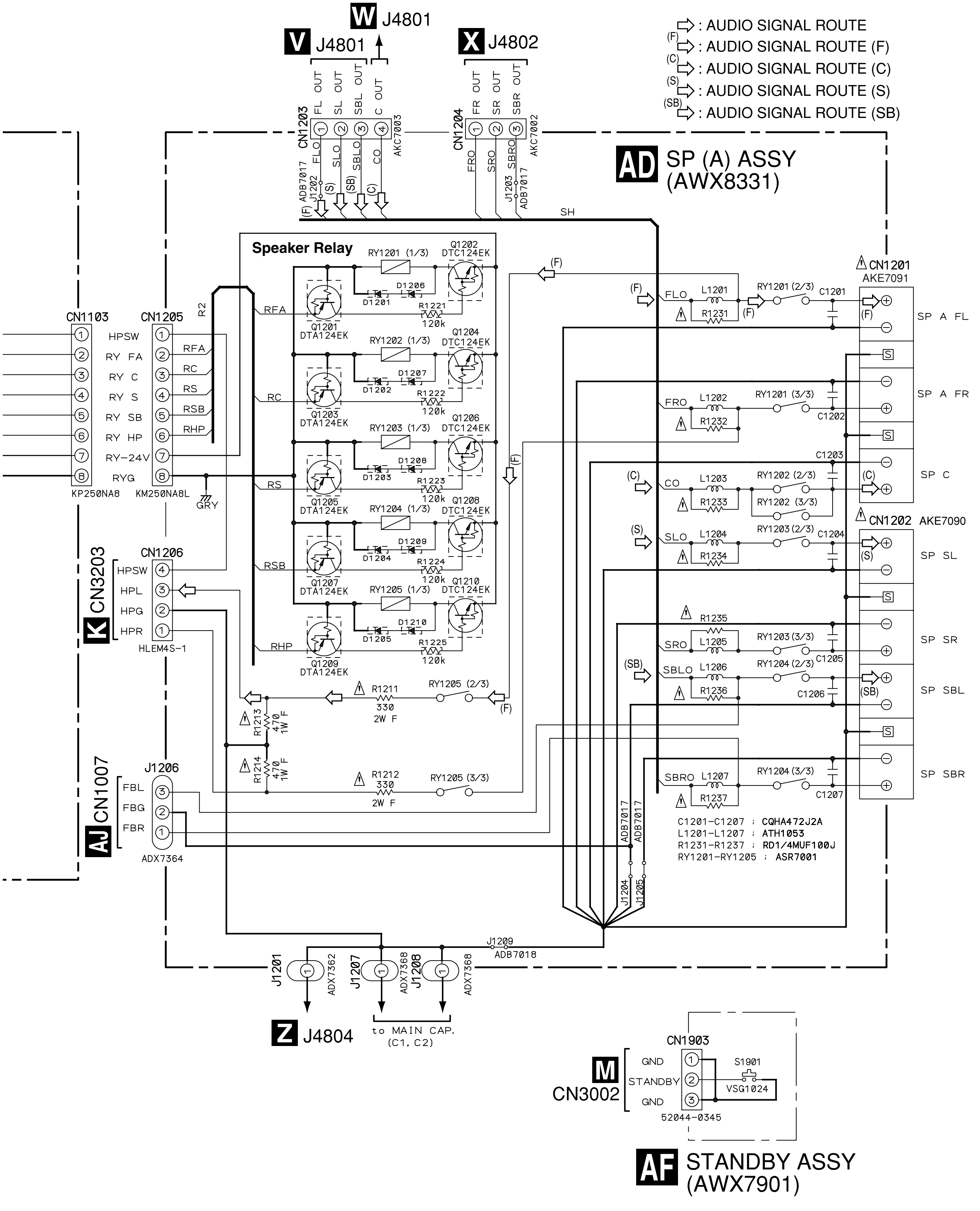
(TX) ⇨ : AUDIO SIGNAL ROUTE (TUNER)

3.7 AC PRIMARY and SP (A) ASSYS


AC
POWER SW ASSY
(AWX7840)
S1301
ASG7024
C1301 C1302
TL TL
0.01 0.01
CN1301
52147-0310
ACSW1
NC
ACSW2
CN1105
52151-0310
AP CN1905
CN1106
BM1
BM2
B02B-XASK-1
R CN5801
CN1104
ST OFF
WAKE UP
RY DATA
RY CLK
RY STB
RY OEN
TDET
HPSW
STG
ST+5.6V
FANDET
FAN-27V
FANG
FAN-REG
HLEM14R-1
Q1106
DTA124EK
R1107
47k
Q1105
2SC2412K (QR)
R1116
R1117
18k
D1108
1SS355
D1106
R1121
18k
D1107
HZU2.7B2
R1120
0
RFA
RC
RS
RSB
RHP
GFAN
AB F
AC PRIMARY ASSY
(AWX8262)
R1104 220
R1105 220
R1106 220
D1109
C1106
0.1/16
YB
IC1103
Port Expander
BU4094BC
VDD
OEn
Q5
Q6
Q7
Q8
QSn
QS
STB
DATA
CLK
Q1
Q2
Q3
Q4
VSS
RFB
RHP
RAC1
RAC2
R1
RFA
RC
RS
RSB
IC1102
NJM79M24FA
-27V
L1102
RTF1167
IN
OUT
C1109
AT
10/50
C1110
AT
47/25
-24V
R1101
3.3k
D1103
C1101
0.1/100
ACE7037
Q1101
2SC2412K (QR)
R1110
4.7k
Q1102
2SB1197K (QR)
R1111
47k
Q1103
DTC124EK
ATT7041
T1101
D1101
S1VB20
IC1101
NJM78M56FA
+13V
L1101
RTF1167
+5.6V
C1102
AT
2200/25
C1103
AT
100/10
C1104
AT
100/10
R1102
10k
D1102
UDZS5.1B
R1103
10
C1105
YB
0.047/16
GNDD
KN1101
VNF1084
CN1101
AKP7141
ST HI
ST LO
ST N
AJ CN1001
CN1102
KP250NA7
ST+12V
STG
RYAC1
RYAC2
RYBF
RYG
RY-24V
RAC1
RAC2
RFB
AJ CN1005
Q1901
2SC5174P
R1901
2.7k MUF
1/4W
R1902
47
CN1901
CN1902
FL AC2
FL AC1
FL VF
FL G
AC2
AC1
VH
UG
+47V
+43V
C1901
JQ
10/50
D1901
UDZS22B
D1902
UDZS22B
C1902
JQ
10/50
C1903
JQ
10/50
B04B-XASK-1
52147-0410
AL
CN1803
M
J3301
AE
FL SUPPLY ASSY
(AWX8269)

NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
MUF:RD1/4MUF
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)",
or 50V unless otherwise noted.
AT:CEAT, JQ:CEJQ
3. DIODES
No marked Diodes are 1SS355.
4. VOLTAGE
Indicated in DC Voltage.

AB F AC AE

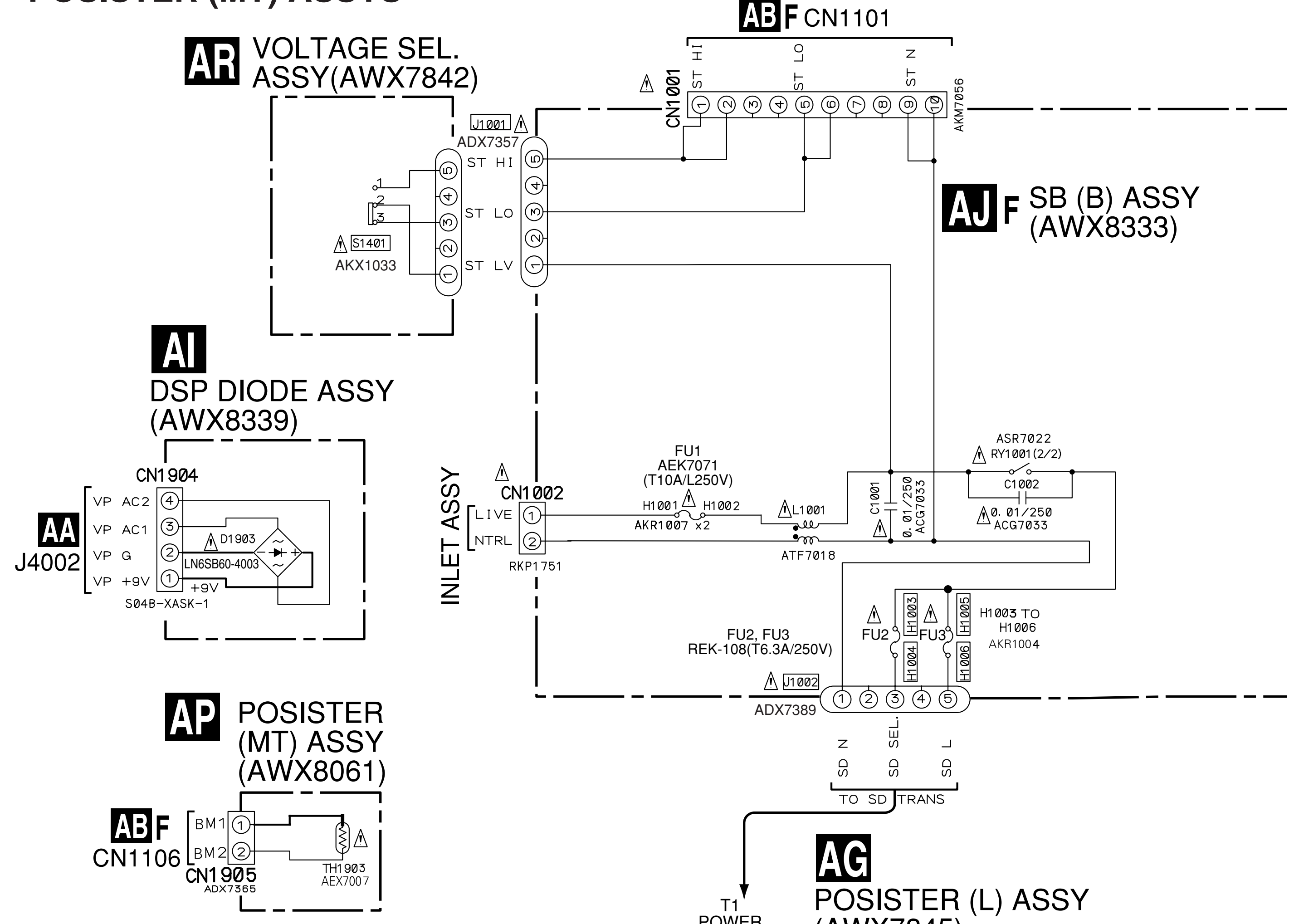

: AUDIO SIGNAL ROUTE
(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)
W J4801
V J4801
X J4802
FL OUT
SL OUT
SBL OUT
C OUT
FR OUT
SR OUT
SBR OUT
CN1203
AKC7003
CN1204
AKC7002
FLO
SLO
SBLO
CO
FRO
SRO
SBRO
ADB7017
J1202
J1203
SH
AD SP (A) ASSY (AWX8331)
Speaker Relay
RY1201 (1/3)
Q1202 DTC124EK
D1206
D1201
R1221 120k
Q1201 DTA124EK
RY1202 (1/3)
Q1204 DTC124EK
D1207
D1202
R1222 120k
Q1203 DTA124EK
RY1203 (1/3)
Q1206 DTC124EK
D1208
D1203
R1223 120k
Q1205 DTA124EK
RY1204 (1/3)
Q1208 DTC124EK
D1209
D1204
R1224 120k
Q1207 DTA124EK
RY1205 (1/3)
Q1210 DTC124EK
D1210
D1205
R1225 120k
Q1209 DTA124EK
RFA
RC
RS
RSB
RHP
R2
CN1103
CN1205
HPSW
RY FA
RY C
RY S
RY SB
RY HP
RY−24V
RYG
KP250NA8
KM250NA8L
GRY
K CN3203
CN1206
HPSW
HPL
HPG
HPR
HLEM4S-1
R1211 330 2W F
RY1205 (2/3)
R1213 470 1W F
R1214 470 1W F
R1212 330 2W F
RY1205 (3/3)
AJ CN1007
J1206
FBL
FBG
FBR
ADX7364
CN1201 AKE7091
FLO L1201 R1231
RY1201 (2/3) C1201
SP A FL
FRO L1202 R1232
RY1201 (3/3) C1202
SP A FR
C1203
CO L1203 R1233
RY1202 (2/3)
RY1202 (3/3)
SP C
CN1202 AKE7090
SLO L1204 R1234
RY1203 (2/3) C1204
SP SL
R1235
SRO L1205
RY1203 (3/3) C1205
SP SR
SBLO L1206 R1236
RY1204 (2/3) C1206
SP SBL
SBRO L1207 R1237
RY1204 (3/3) C1207
SP SBR
J1204
J1205
ADB7017
J1209 ADB7018
J1201 ADX7362
J1207 ADX7368
J1208 ADX7368
Z J4804
to MAIN CAP. (C1, C2)
M CN3002
CN1903
GND
STANDBY
GND
52044-0345
S1901
VSG1024
AF STANDBY ASSY (AWX7901)

C1201−C1207 ; **CQHA472J2A**
L1201−L1207 ; **ATH1053**
R1231−R1237 ; **RD1/4MUF100J**
RY1201−RY1205 ; **ASR7001**

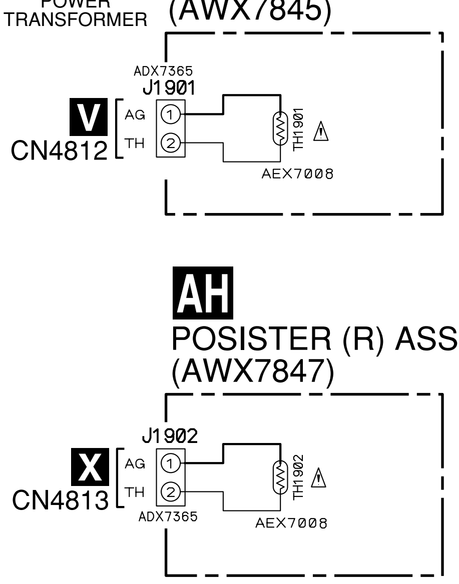
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

AB F **AD** **AF**

3.8 POSISTER (L) (R), DSP DIODE, SP (B), DIODE, TRANS (A) (B), FUSE and POSISTER (MT) ASSYS



AB F CN1101
AR VOLTAGE SEL. ASSY(AWX7842)
ST HI
ST LO
ST N
CN1001
AKM7056
J1001
ADX7357
ST HI
ST LO
ST LV
S1401
AKX1033
AJ F SB (B) ASSY (AWX8333)
AI DSP DIODE ASSY (AWX8339)
CN1904
AA J4002
VP AC2
VP AC1
VP G
VP +9V
D1903
LN6SB60-4003
+9V
S04B-XASK-1
INLET ASSY
CN1002
LIVE
NTRL
RKP1751
FU1
AEK7071
(T10A/L250V)
H1001
H1002
AKR1007 x2
L1001
ATF7018
C1001
0.01/250
ACG7033
ASR7022
RY1001(2/2)
C1002
0.01/250
ACG7033
H1003
H1005
H1004
H1006
FU2
FU3
H1003 TO H1006
AKR1004
FU2, FU3
REK-108(T6.3A/250V)
J1002
ADX7389
SD N
SD SEL.
SD L
TO SD TRANS
T1 POWER TRANSFORMER
AP POSISTER (MT) ASSY (AWX8061)
AB F CN1106
BM1
BM2
CN1905
ADX7365
TH1903
AEX7007



AG POSISTER (L) ASSY (AWX7845)
ADX7365
J1901
V CN4812
AG
TH
TH1901
AEX7008
AH POSISTER (R) ASSY (AWX7847)
J1902
X CN4813
AG
TH
ADX7365
TH1902
AEX7008

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3. DIODES
   No marked Diodes are 1SS355.
4. VOLTAGE
   Indicated in DC Voltage.

MUF	RD1/4MUF***J	TY	CFTYA***J50
MMF	RD1/2MMF***J	HA	CQHA***J**
			CEAT***M**
		JQ	CEJQ***M**

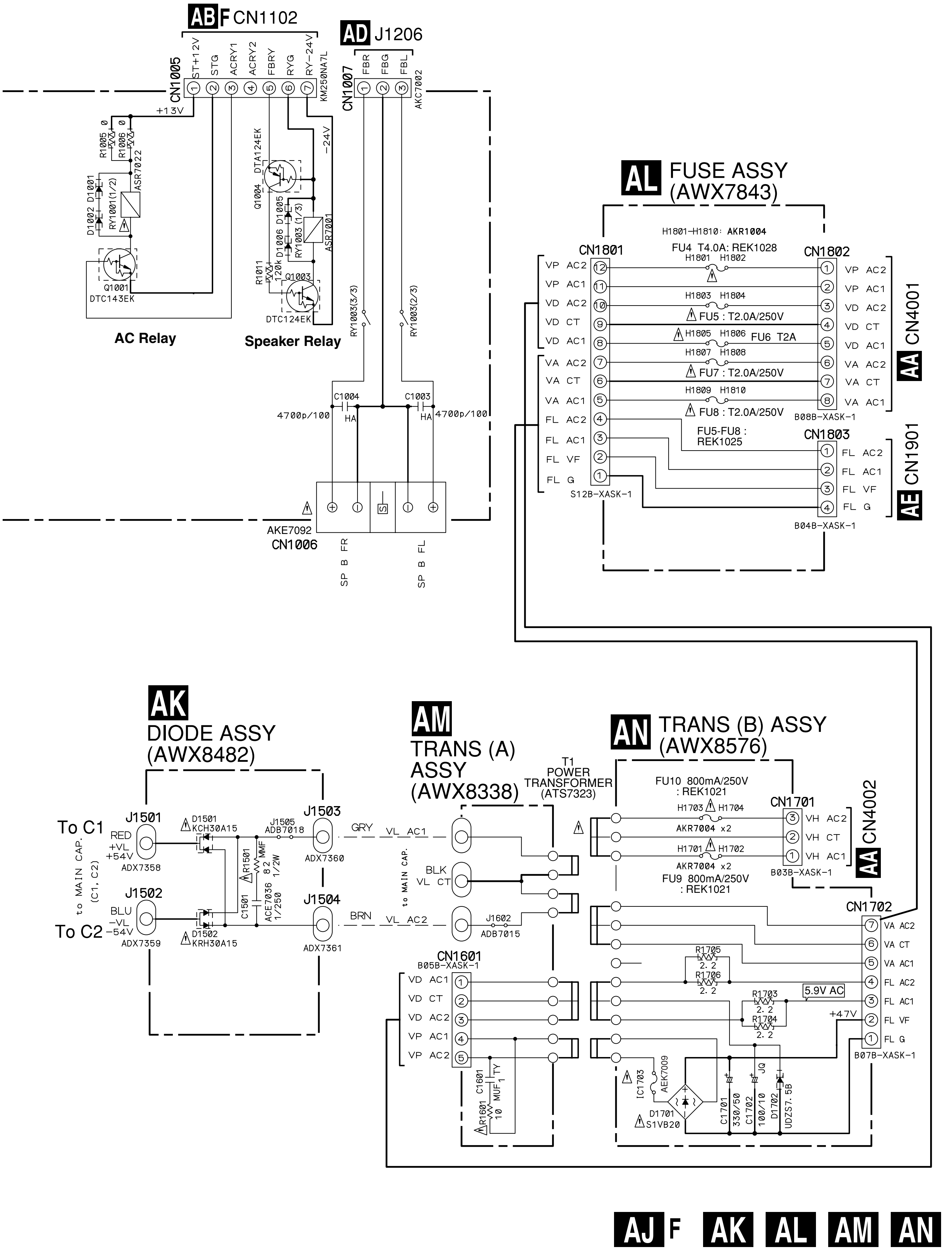
※Parts or parts block marked by "*" or "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

- NOTE FOR FUSE REPLACEMENT

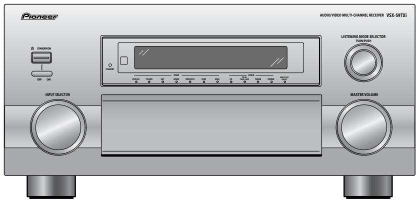
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

AG AH AI AJ F AP AR


AB F CN1102
CN1005
ST+12V
STG
ACRY1
ACRY2
FBRY
RYG
RY-24V
KM250NA7L
+13V
R1005 0
R1006 0
ASR7022
D1002 D1001
RY1001(1/2)
Q1001
DTC143EK
AC Relay
-24V
Q1004 DTA124EK
D1005
D1006
RY1003 (1/3)
ASR7001
R1011 120k
Q1003
DTC124EK
Speaker Relay
AD J1206
CN1007
FBR
FBG
FBL
AKC7002
RY1003(3/3)
RY1003(2/3)
C1004
4700p/100
HA
C1003
4700p/100
HA
AKE7092
CN1006
SP B FR
SP B FL
AL FUSE ASSY (AWX7843)
H1801–H1810 : AKR1004
FU4 T4.0A: REK1028
H1801 H1802
CN1801
VP AC2
VP AC1
VD AC2
VD CT
VD AC1
VA AC2
VA CT
VA AC1
FL AC2
FL AC1
FL VF
FL G
S12B-XASK-1
H1803 H1804
FU5 : T2.0A/250V
H1805 H1806 FU6 T2A
H1807 H1808
FU7 : T2.0A/250V
H1809 H1810
FU8 : T2.0A/250V
FU5-FU8 : REK1025
CN1802
VP AC2
VP AC1
VD AC2
VD CT
VD AC1
VA AC2
VA CT
VA AC1
B08B-XASK-1
AA CN4001
CN1803
FL AC2
FL AC1
FL VF
FL G
B04B-XASK-1
AE CN1901
AK DIODE ASSY (AWX8482)
To C1
J1501
RED +VL +54V
ADX7358
To C2
J1502
BLU -VL -54V
ADX7359
to MAIN CAP. (C1, C2)
D1501 KCH30A15
D1502 KRH30A15
J1505 ADB7018
R1501 MMF 82 1/2W
C1501 ACE7036 1/250
J1503 ADX7360
J1504 ADX7361
GRY VL AC1
BLK VL CT
BRN VL AC2
to MAIN CAP.
AM TRANS (A) ASSY (AWX8338)
J1602 ADB7015
CN1601 B05B-XASK-1
VD AC1
VD CT
VD AC2
VP AC1
VP AC2
C1601 10 MUF TY 1
R1601
T1 POWER TRANSFORMER (ATS7323)
AN TRANS (B) ASSY (AWX8576)
FU10 800mA/250V : REK1021
H1703 H1704
AKR7004 x2
H1701 H1702
AKR7004 x2
FU9 800mA/250V : REK1021
CN1701
VH AC2
VH CT
VH AC1
B03B-XASK-1
AA CN4002
CN1702
VA AC2
VA CT
VA AC1
FL AC2
FL AC1
FL VF
FL G
B07B-XASK-1
R1705 2.2
R1706 2.2
R1703 2.2
R1704 2.2
5.9V AC
+47V
IC1703 AEK7009
D1701 S1VB20
C1701 330/50
C1702 100/10 JQ
D1702 UDZS7.5B
AJ F AK AL AM AN

sound.vision.soul

Service Manual


VSX-59TXi

ORDER NO.
RRV2856

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-59TXi

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-59TXi	KU/CA	AC120V	

For details, refer to "Important symbols for good services" .

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
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T-ZZR DEC. 2003 printed in Japan

SAFETY INFORMATION

This service manual is intended for qualified service technicians ,it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and mayvoid the warranty. If you are not qualified to perform the repair of this product properly and safely, youshould not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

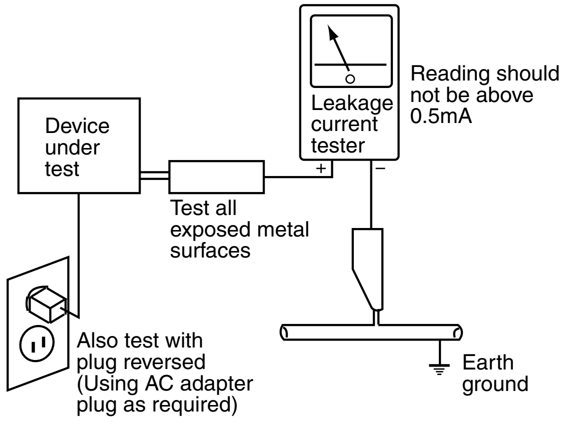
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Leakage current tester
Reading should not be above 0.5mA
Device under test
+
−
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important symbols for good services]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety

You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments

To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning

For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws

To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts

Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount.For replacement parts or tools, the prescribed ones should be used.

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1. SPECIFICATIONS

Specifications

Amplifier Section

Continuous average power output of 160 watts* per channel, min., at 6 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output (6 Ω)

Front	160 W + 160 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Center	160 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Surround	160 W + 160 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Surr. back	160 W + 160 W (20 Hz-20 kHz, 0.09 %, 6 Ω)

Continuous Power Output (8 Ω)

Front	130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Center	130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Surround	130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Surr. back	130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)

Audio Section

Input (Sensitivity/Impedance)	
PHONO MM	4.7 mV/47 kΩ
LINE	382 mV/47 kΩ
Phono Overload level (T.H.D.0.1 %, 1kHz)	
PHONO MM	120 mV
Frequency Response	
PHONO MM	20 Hz to 20,000 Hz ± 0.3 dB
LINE	5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)	
LINE	382 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+4/+2 dB (100Hz/10 kHz) (at volume position -40dB)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
PHONO MM	86 dB
LINE	105 dB
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	
PHONO MM	83 dB
LINE	93 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

** *Measured by Audio Spectrum Analyzer.*

Maintenance of External Surfaces

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

Video Section

Input (Sensitivity)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	70 dB
Frequency Response	5 Hz to 10 MHz $^{+0}_{-3}$dB

Component Video Section

Input (Sensitivity)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	70 dB
Frequency Response	5Hz to 100 MHz $^{+0}_{-3}$dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 13.2 dBf, IHF (1.3 µV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 38.6 dBf
Signal-to-Noise Ratio	Mono: 73 dB (at 85 dBf) Stereo: 70 dB (at 85 dBf)
Distortion	Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity	60 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1) dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna)	350 µV/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60 Hz
Power Consumption	735 W, 970 VA
Power Consumption in Standby mode	0.65 W
AC Outlet	
SWITCHED	100 W (0.8 A) MAX
Dimensions	440 (W) × 204 (H) × 476 (D) mm (17-$^5/_{16}$ (W) × 8 (H) × 18-$^3/_4$ (D) in.)
Weight (without package)	31.0 kg (68.4lb 6 oz)

Furnished Parts

Microphone	1
Remote control unit	1
Remote control unit recharger	1
AC adapter	1
AM loop antenna	1
FM wire antenna	1
Power cord	1
U-shaped connectors	2
These operating instructions	1
Warranty card	1

Note

Specifications and the design are subject to possible modifications without notice, due to improvements.

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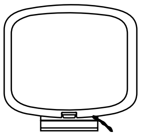
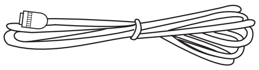
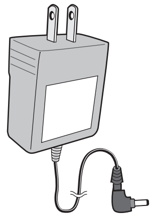
Accessories



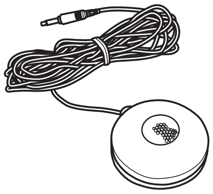
AM loop antenna
(ATB7009)



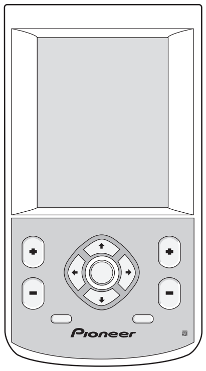
FM wire antenna
(ADH7033)



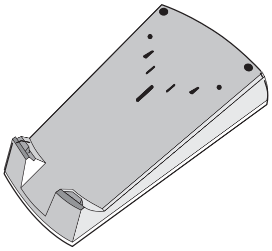
AC Adaptor (AXY7009)
(for Battery Charger)



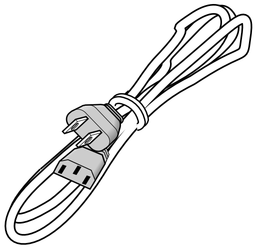
Auto Surround
Setup Microphone
(APM7003)



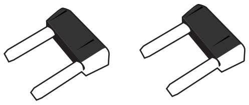
Remote control unit
(AXD7377)



Battery Charger
for Remote Control Unit
(AXY7010)



AC power cord
(ADG7061)

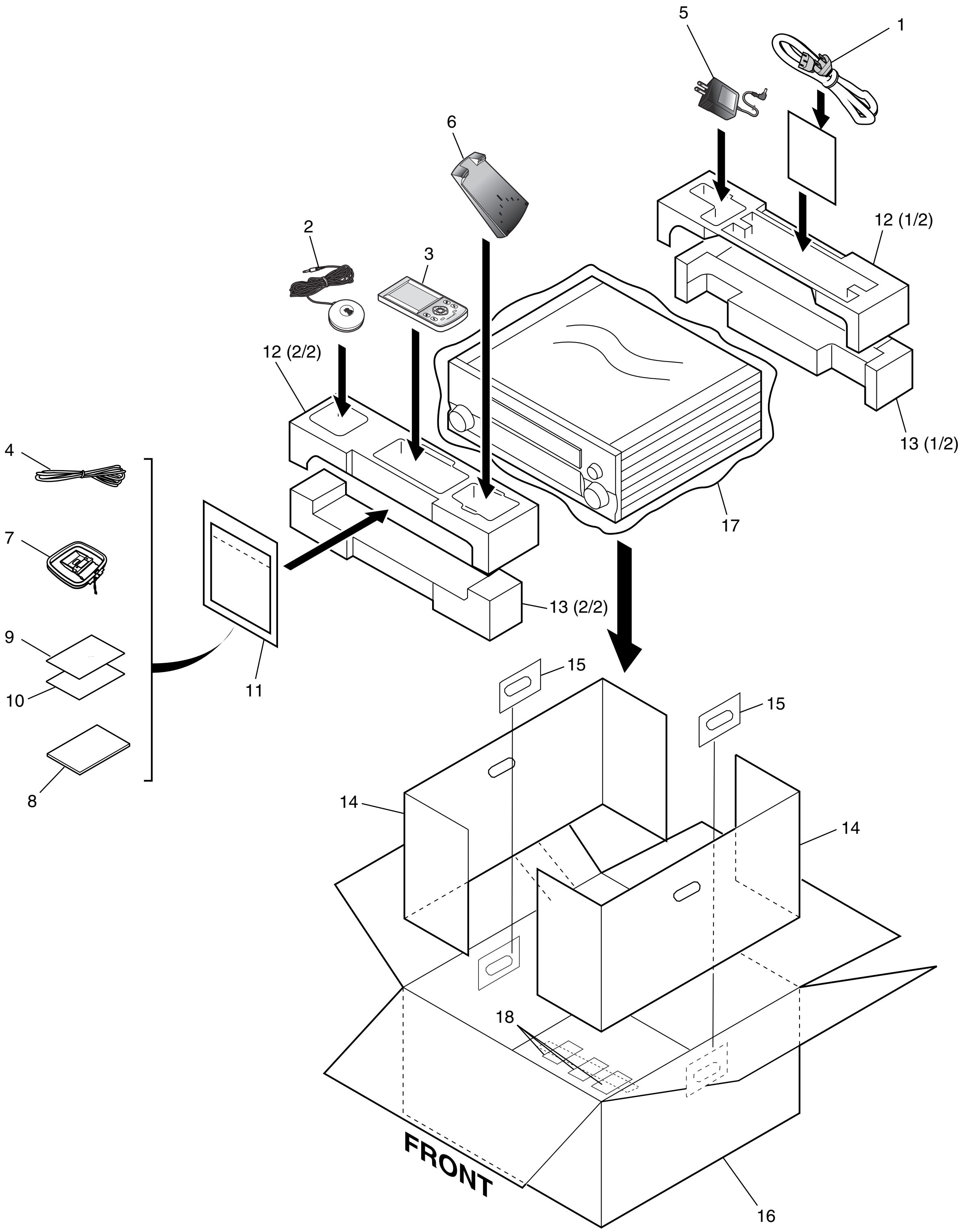


U-shaped connectors x2
(AKM7005)
(attached to back of receiver)

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

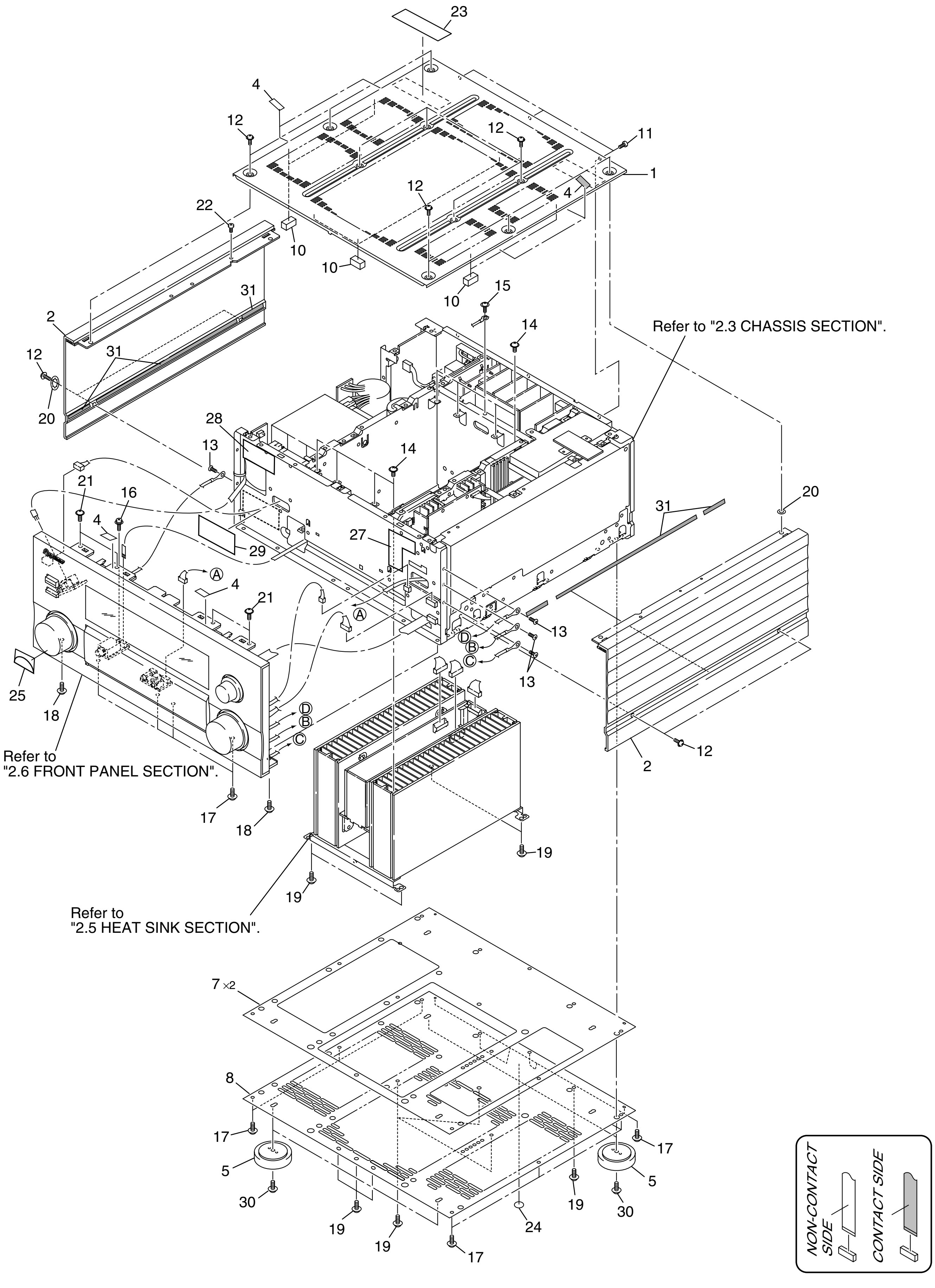
2.1 PACKING



PACKING parts List

Mark	No.	Description	Part No.
⚠	1	Power Cord	ADG7061
	2	Auto Surround (Setup Microphone)	APM7003
	3	Remote Control Unit	AXD7377
	4	FM Wire Antenna	ADH7033
⚠	5	AC Adaptor (for Batter Charger)	AXY7009
	6	Batter Charger for Remote Control Unit	AXY7010
	7	AM Loop Antenna	ATB7009
	8	Operating Instructions (English)	ARB7290
NSP	9	Warranty Card EL	ARY1026
	10	Caution Sheet (SP, E)	ARM7056
NSP	11	Polyethylene Bag (0.03 x 230 x 340)	Z21-038
	12	Top Pad	AHA7426
	13	Bottom Pad	AHA7427
	14	Spacer	AHB7057
	15	Handle Cover	AHX7034
	16	Packing Case 59TXI	AHD8237
	17	Packing Sheet	DHL1022
NSP	18	Silica gel	AEN7001

2.2 EXTERIOR SECTION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Refer to "2.3 CHASSIS SECTION".

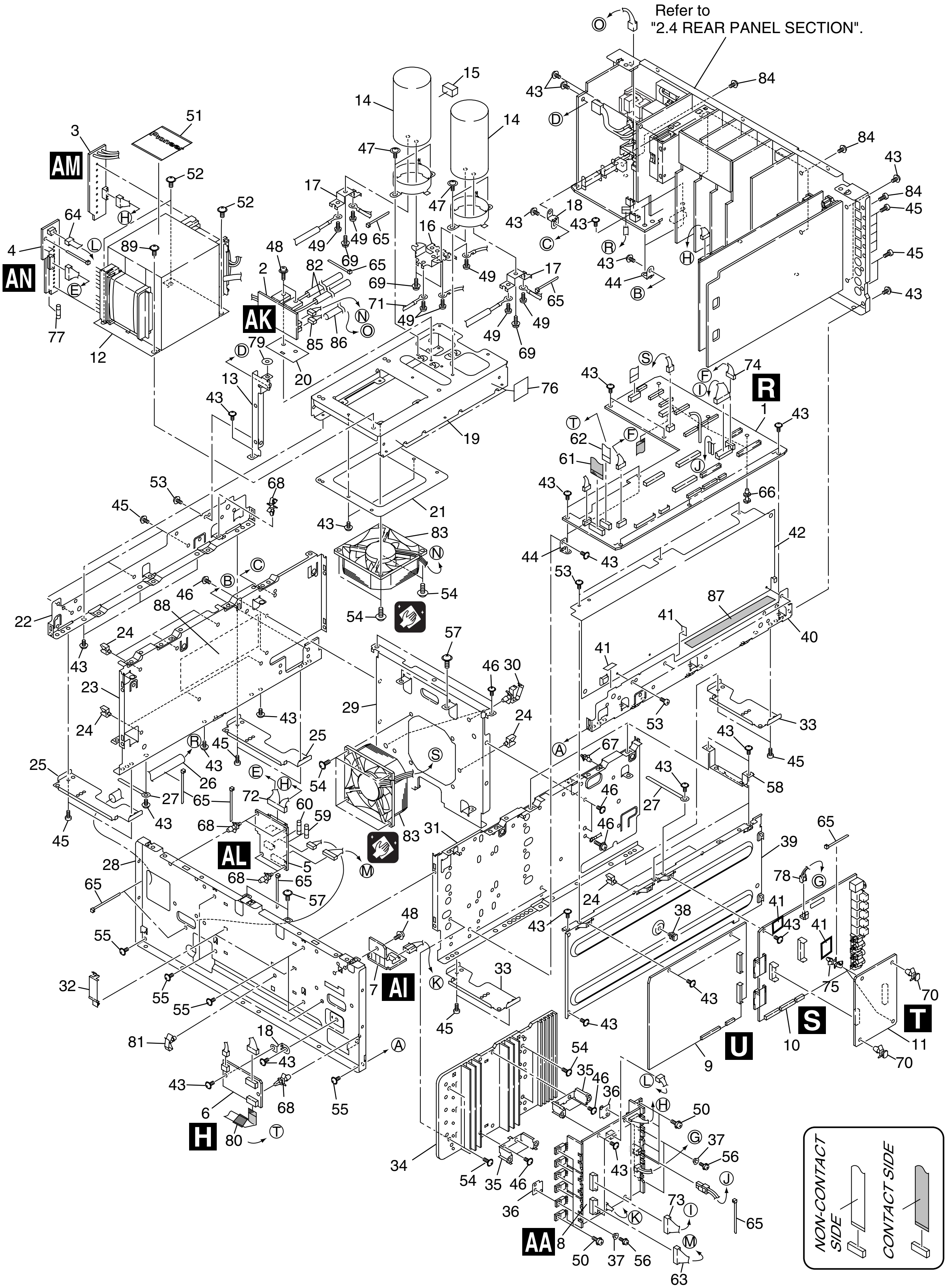
Refer to "2.6 FRONT PANEL SECTION".

Refer to "2.5 HEAT SINK SECTION".

EXTERIOR SECTION parts List

Mark	No.	Description	Part No.
NSP	1	Top Plate BK	ANE7323
	2	Side Alum BK	AAH7095
	3	• • • •	
NSP	4	Tape	PNM1249
	5	Insulator	ANL7023
	6	• • • •	
NSP	7	Bottom Plate B	ANF7030
NSP	8	Bottom Plate A Cu	ANF7029
	9	Nonskid Heels	AEC7224
	10	FPT Sealer (10 x 20)	AEB7334
	11	Screw	BBT30P060FCC
	12	Screw	FBT40P080FZK
	13	Screw	ABA7079
	14	Screw	ABA7103
	15	Screw	VBA1056
	16	Screw	ABA1011
	17	Screw	ABA7102
	18	Screw	ABA1193
	19	Screw	ABA7101
	20	Washer	AEC7495
	21	Screw	BBT30P100FCC
	22	Screw	ABA7098
	23	License Label	ARW7256
	24	UL Caution Card	AAX-313
NSP	25	Energystar Label	AAX8022
	26	• • • •	
NSP	27	ICP Caution Label	ARW7150
NSP	28	ICP Caution Label	ARW7151
NSP	29	Fuse Caution Label	ARW7175
	30	Screw	BSZ40P200FMC
	31	Tape	ZTA-224-19WH

2.3 CHASSIS SECTION


Refer to "2.4 REAR PANEL SECTION".

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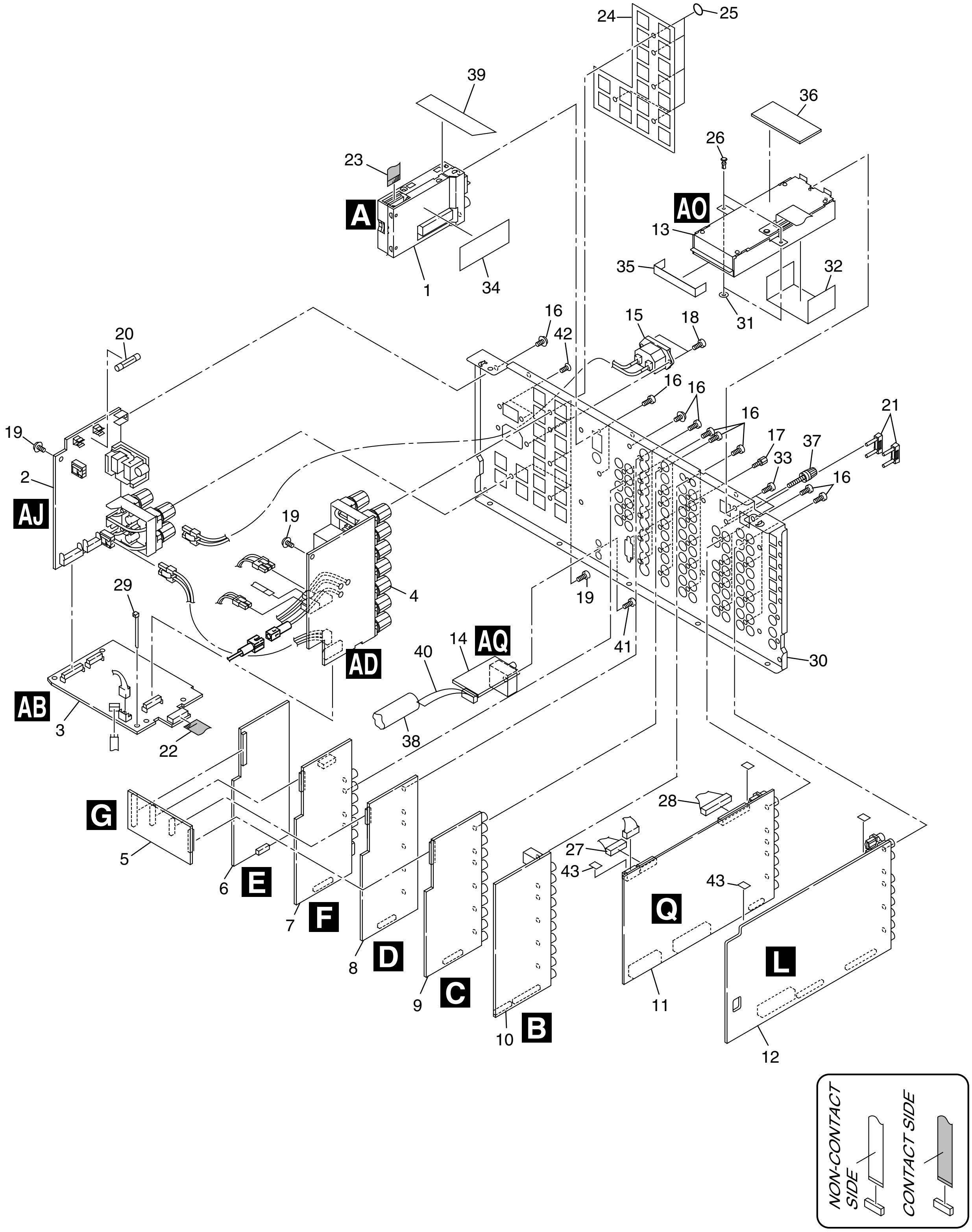
CHASSIS SECTION parts List

Mark	No.	Description	Part No.
	1	MOTHER Assy	AWX8280
	2	DIODE Assy	AWX8412
	3	TRANS (A) Assy	AWX8338
	4	TRANS (B) Assy	AWX8057
	5	FUSE Assy	AWX7843
	6	MIC AMP Assy	AWX8341
	7	DSP DIODE Assy	AWX8339
	8	LOCAL SUPPLY Assy	AWX8278
	9	DAC10 Assy	AWK7773
	10	DSP Assy	AWK7774
	11	DSP3 Assy	AWK7775
⚠	12	Power Transformer (T1)	ATS7320
NSP	13	PCB Holder B	ANG7388
	14	Capacitor (C1, C2)	ACH7201
	15	Rubber Spacer	AEB7324
NSP	16	Earth Plate	ANG7381
NSP	17	Joint Plate	ANG7382
NSP	18	PCB Base	RNE1849
	19	Trans Frame	ANA7162
	20	Radiation Sheet	AEE7043
NSP	21	Trans Stabilizer	ANG7378
NSP	22	Side Frame L	AWA7133
NSP	23	Side Wall L	AND7041
NSP	24	Wire Clip (A)	VEC1355
NSP	25	Insulator Frame B	ANG7487
	26	Glass Tube	ADN7006
	27	Cord Holder	RNH1005
	28	Panel Stay	AND7045
	29	Fan Holder A Cu	ANG7371
NSP	30	Wire Saddle	DEC1450
NSP	31	Side Wall R Cu	AND7043
NSP	32	Flat Cable Clamp	AEC7376
NSP	33	Insulator Frame A	ANG7486
	34	Sub Heat Sink	ANH7154
NSP	35	PCB Holder D	ANG7392
	36	Mica Sheet S	AEE7042
	37	Bushing 26	AEC7128
NSP	38	PCB Spacer	AEC7156
NSP	39	Shield Case A	ANK7093
NSP	40	Side Frame R	ANA7135
NSP	41	Tape	PNM1249
NSP	42	Shield Case B Cu	ANK7107
	43	Screw	ABA1011
NSP	44	PCB Holder C	ANG7389
	45	Screw (3x8)	ABA7098
	46	Screw (3x9)	ABA7101
	47	Screw (4x8:CT)	VBA1056
	48	Screw (S 3x10)	ABA1054
	49	Screw (3x8 : B)	ABA7017
	50	Screw	ABA7076
	51	Trans Label	AAX7897
	52	Screw	ABA1014
	53	Screw	BBT30P060FCC
	54	Screw (3x10)	ABA7102
	55	Screw (3x6)	ABA1192
	56	Screw (2.6x13)	ABA7084
	57	Screw (4x8 BT)	ABA7103
NSP	58	PCB Frame B	ANG7386
⚠	59	Fuse (FU4, 5A)	VEK1024
⚠	60	Fuse (FU5-FU8, 2A)	VEK1019
	61	J29 FFC (17P) (Mother CN5807-DISPLAY CN3001)	ADD7329
	62	J30 FFC (11P) (Mother CN5806-MIC AMP CN3207)	ADD7330
	63	J16 8P Connector Assy (Local Supply CN4001-FUSE CN1802)	ADX7379
	64	J17 3P Connector Assy (Local Supply CN4002-TRANS(B) CN1701)	ADX7380
NSP	65	Binder	ZCA-BK1
NSP	66	Card Spacer	REC1156
NSP	67	PCB Holder	PNW2100
	68	Locking Card Spacer	VEC2234
	69	Screw	PMH40P080FMC
	70	PC Support	DEC1772
	71	Terminal wire (J7)	ADX7366
	72	J1601 5P,7P Parallel wire	ADX7385
	73	J5805 9P Connector Assy (Local Supply CN4004-Mother CN5805)	ADX7378
	74	5802 Crimp Connector Assy (Mother CN5827-Mother CN5828)	PF06PP-R27
	75	PCB Spacer	VEC1508
NSP	76	Trans Frame Spacer	AEC7400
⚠	77	Fuse (FU9-FU10, 1A)	VEK1014
	78	J4001 2P Connector Assy (Local supply CN4005-DSP CN704)	ADX7407
	79	Washer	ABE-053
	80	Acetate tape	AEH7017
NSP	81	Clamp	DEC1759
	82	Glass Tube(6x95)	ADN7010
	83	Fan Motor	AXM7028
	84	Screw	ABA7011
	85	3P Connector Assy (J1102)	ADX7388
	86	Glass Tube (14 x 110)	ADN7005
	87	Tape (15 x 150)	AEH7024
	88	Tape (9 x 210)	AEH7025
	89	Screw	ABA7115

2.4 REAR PANEL SECTION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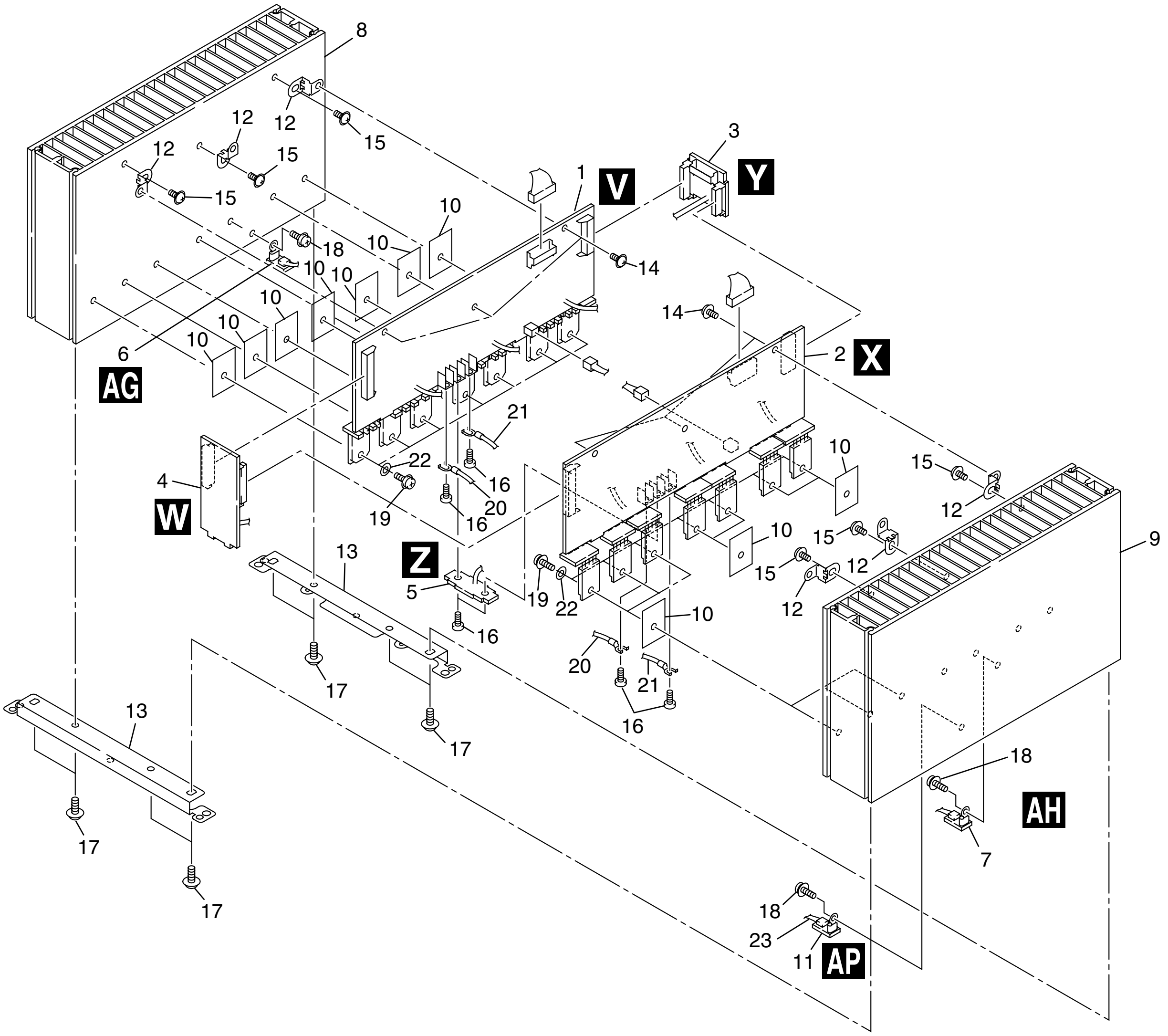
CONTACT SIDE

REAR PANEL SECTION parts List

Mark	No.	Description	Part No.
	1	FM/AM Tuner Module	AXQ7237
	2	SP (B) Assy	AWX8332
	3	AC PRIMARY Assy	AWX8261
	4	SP (A) Assy	AWX8330
	5	VIDEO CONNECT Assy	AWX7876
	6	V-CONVERT Assy	AWX8160
	7	COMPONENT Assy	AWX7953
	8	S-VIDEO Assy	AWX8159
	9	COMPOSITE Assy	AWX7942
	10	A/V I/O Assy	AWX8271
	11	VR & PRE OUT Assy	AWX8271
	12	ANALOG IN & A/D Assy	AWX8273
	13	1394 Module	AXQ7251
	14	12V TRIGGER Assy	AWX8321
	15	AC Inlet Assy	ADX7395
	16	Screw (3x8)	ABA7098
	17	Hexagonal Screw (2.85x7)	ABA7078
	18	Screw (3x10 : T)	ABA1193
	19	Screw (Washer : BT)	ABA1011
⚠	20	Fuse (FU1, 12A/125V)	AEK-306
	21	Short Pin Plug	AKM7005
	22	J23 FFC (14P) (SP(A) CN1104-Mother CN5801)	ADD7334
	23	J22 FFC (13P) (Yuner CN2705-Mother CN5802)	ADD7333
	24	Speaker Sheet 49	AAK7959
	25	Cushion Circle	AED7052
	26	Nyron Rivet	AEC-525
	27	J5001 8P Connector Assy (VR OUT CN5005 - Power AMP(BR) CN4811)	ADX7382
	28	J5002 14P Connector Assy (VR OUT CN5006 - Power AMP(L) CN4801 and Power AMP(R) CN4802)	ADX7381
	29	Binder	ZCA-BK1
	30	Rear Panel	ANC8205
	31	Fiber washer	RBF1045
	32	Acetate Tape	AEH7015
	33	Screw	BCZ30P060FCC
	34	Shield plate	AMR7445
	35	Acetate tape (10x100)	AEH7018
	36	Shield Cushion	AEB7274
	37	Earth Terminal	AKE-031
	38	Tube (8 x 60)	ADN7015
	39	Acetate Tape	ZTA-156A-19
	40	Flexible Cable 4P (J42)	ADD7442
	41	Screw	ABA7098
	42	Screw (HLS_ZK)	ABA7079
NSP	43	Tape	PNM1249

2.5 HEAT SINK SECTION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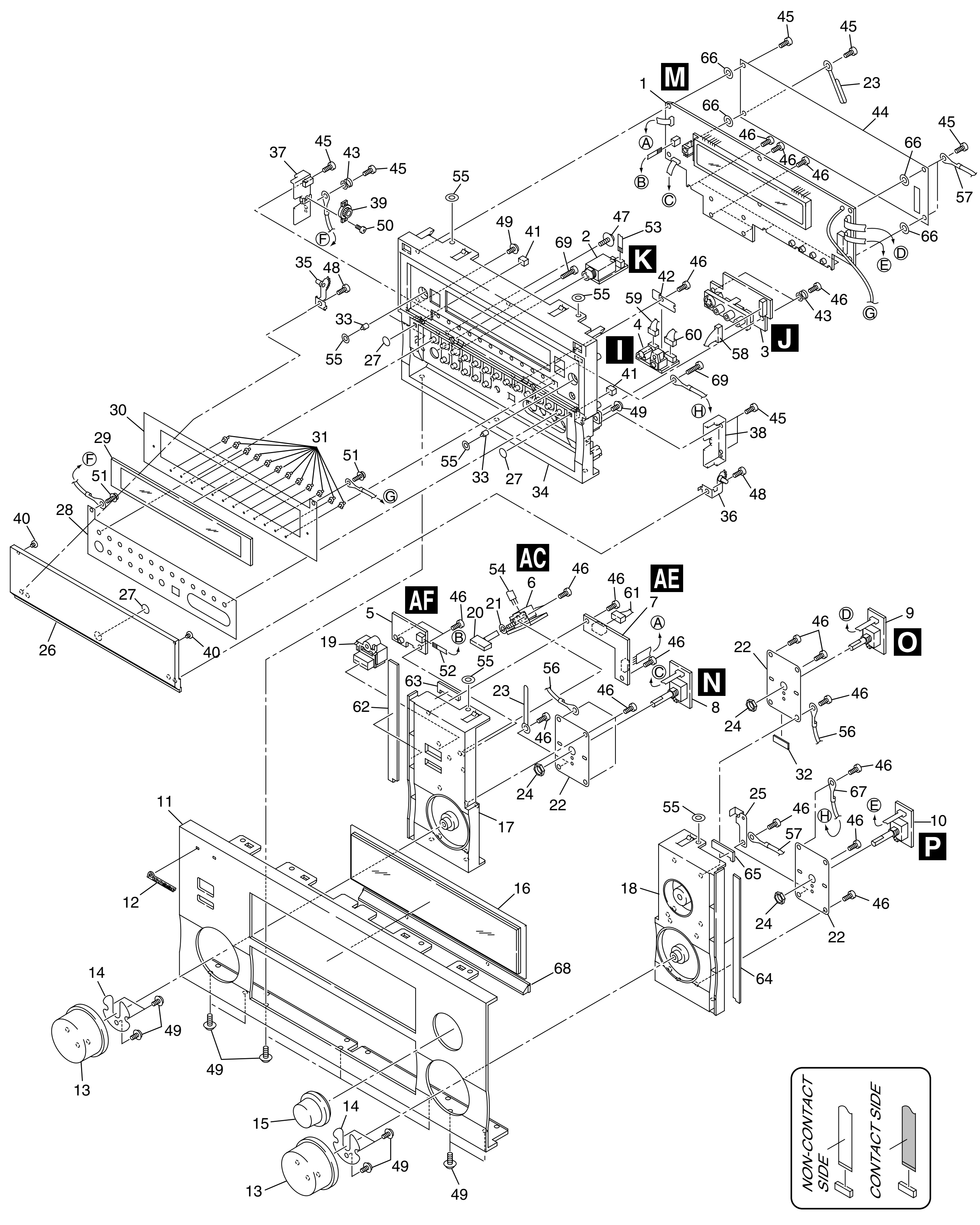
HEAT SINK SECTION parts List

Mark	No.	Description	Part No.
	1	POWER AMP (L) Assy	AWX8276
	2	POWER AMP (R) Assy	AWX8277
	3	POWER AMP (BR) Assy	AWX8320
	4	POWER AMP (C) Assy	AWX8319
	5	POWER AMP (G) Assy	AWX7886
	6	POSISTER (L) Assy	AWX7844
	7	POSISTER (R) Assy	AWX7846
	8	Heat Sink L	ANH7170
	9	Heat Sink R	ANH7171
	10	Ceramic Plate	AEE7054
	11	POSISTER (MT) Assy	AWX8270
NSP	12	PCB Holder A	ANG7387
NSP	13	Heat Sink Holder	ANG7490
	14	Screw	ABA1011
	15	Screw (3x9)	ABA1193
	16	Screw	BBZ30P060FCU
	17	Screw (4x8)	ABA7103
	18	Screw (3x8)	ABA7076
	19	Screw (S 3x16)	ABA7083
	20	Over head Terminal wire(RED)	ADX7383
	21	Over head Terminal wire(BLUE)	ADX7384
	22	Washer	WA32F100M050
	23	2P Connector Assy (J41)	ADX7394

2.6 FRONT PANEL SECTION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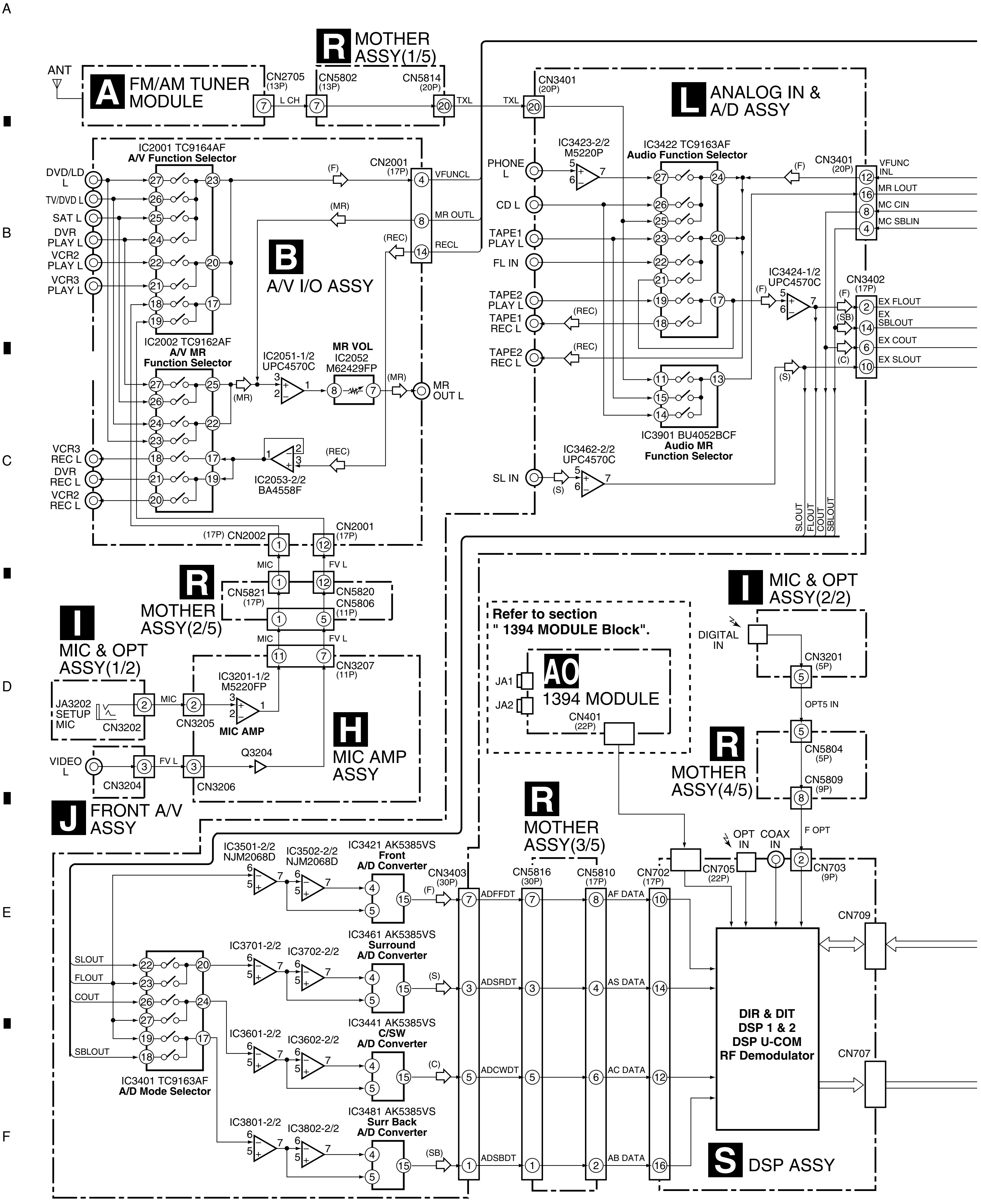
NON-CONTACT SIDE
CONTACT SIDE

FRONT PANEL SECTION parts List

Mark	No.	Description	Part No.
	1	DISPLAY Assy	AWX8317
	2	HEADPHONE Assy	AWX8336
	3	FRONT A/V Assy	AWX8337
	4	MIC & OPT Assy	AWX7875
	5	STANDBY Assy	AWX7901
	6	POWER SW Assy	AWX7840
	7	FL SUPPLY Assy	AWX8269
	8	INPUT SEL Assy	AWX7868
	9	MULTI JOG Assy	AWX7869
	10	VOL Assy	AWX8340
	11	Front Panel 59TXi/ku	ANB7322
	12	Pioneer Badge B	PAN1376
	13	Rotary Knob L BK	AAA7018
	14	Plate	ANG7198
	15	Rotary Knob S BK	AAA7015
	16	Display Panel GTi	AAK8163
	17	Panel Base L BK	AMB7788
	18	Panel Base R BK	AMB7791
	19	Power Button	AAD7440
	20	Power Button M	AAD7442
	21	Washer	ABF7008
NSP	22	VR Stabilizer	ANG7383
	23	Cord Holder	RNH-184
	24	Nut	NK90FCU
NSP	25	Earth Spring	ABK7031
	26	Door Panel 59TXi_BK	ANB7326
NSP	27	Door Cushion	AED7051
	28	Door Plate 59TXi	AAH7105
	29	FL Lens I OR	AAK8169
	30	Inner Panel 59TXi	AAH7109
	31	LED Lens	AAK7931
	32	Tape	ZTA-156A-19
	33	LED Lens	PNW2019
	34	Panel Base C BK	AMB7868
NSP	35	Door Hinge L	ANG7488
NSP	36	Door Hinge R	ANG7489
	37	Door Holder L	AMR7373
	38	Door Holder R	AMR7374
	39	Damper Assy	AXA7108
	40	Screw	ABA7074
	41	Magnet	AMF7004
NSP	42	Input Holder	ANG7384
NSP	43	Earth Spring	ABH7208
	44	Shield plate D	AMR7390
	45	Screw	BBZ30P100FZK
	46	Screw (3x8)	ABA7098
	47	Screw (3x10)	ABA7053
	48	Screw	BBT30P060FCC
	49	Screw	ABA7102
	50	Screw	BBZ20P060FMC
	51	Screw	ABA7076
	52	J33 FFC (3P) (DISPLAY CN3002-STANDBY CN1903)	ADD7331
	53	J35 FFC (4P) (SP(A) CN1206-HEADPHONE CN3203)	ADD7332
	54	J1101 Parallel Wire 3P (POWER SW CN1301-AC PRIMARY CN1105)	D20PYY0365E
	55	Fiber Washer	RBF1045
NSP	56	Earth Metal Fitting	DE007VC0
NSP	57	Earth Metal Fitting	DE012VF0
	58	J32 8P Connector Assy (Front A/V CN3204-MIC AMP CN3206)	ADX7390
	59	J99 4P Connector Assy (MIC & OPT CN3202-MIC AMP CN3205)	ADX7421
	60	J31 5P Connector Assy (MIC & OPT CN3201-Mother CN5804)	ADX7386
	61	J1801 4P Connector Assy (FL Supply CN1901-FUSE CN1803)	ADX7377
NSP	62	Panel spacer left L	AMR7411
NSP	63	Panel spacer left S	AMR7408
NSP	64	Panel spacer right L	AMR7412
NSP	65	Panel spacer right S	AMR7409
	66	Fiber washer T2	AEC7403
NSP	67	Earth Lead (J6009)	DE10VF0
	68	Sash	AAH7103
	69	Screw	BCZ30P140FMC

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM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CN2705 (13P)
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CN5802 (13P)
CN5814 (20P)
TXL
CN3401 (20P)
L ANALOG IN & A/D ASSY
IC2001 TC9164AF
A/V Function Selector
DVD/LD L
TV/DVD L
SAT L
DVR PLAY L
VCR2 PLAY L
VCR3 PLAY L
CN2001 (17P)
VFUNCL
MR OUTL
RECL
(F)
(MR)
(REC)
B A/V I/O ASSY
IC2002 TC9162AF
A/V MR Function Selector
IC2051-1/2 UPC4570C
MR VOL IC2052 M62429FP
MR OUT L
VCR3 REC L
DVR REC L
VCR2 REC L
IC2053-2/2 BA4558F
(17P) CN2002
CN2001 (17P)
MIC
FV L
R MOTHER ASSY(2/5)
CN5821 (17P)
CN5820
CN5806 (11P)
CN3207 (11P)
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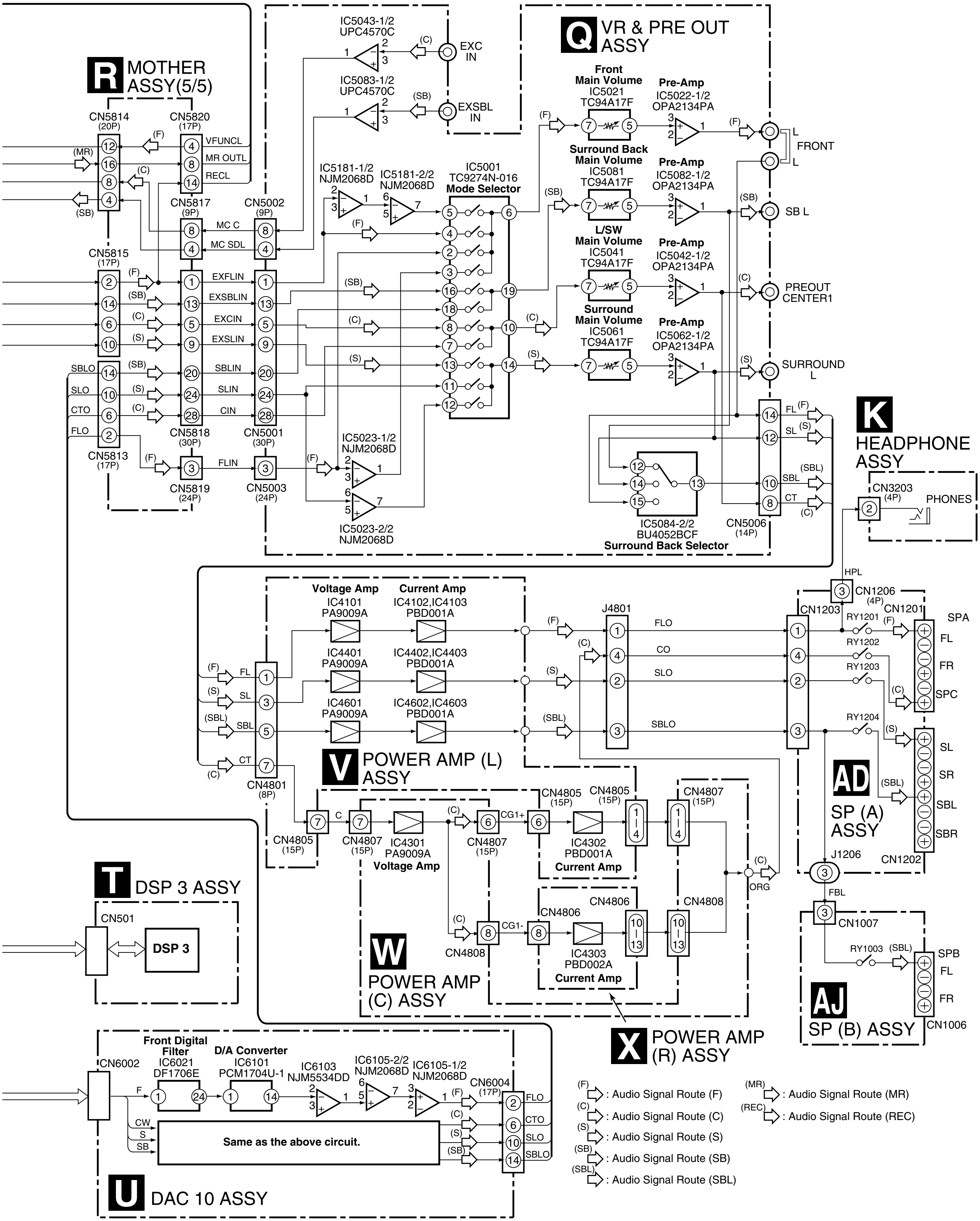
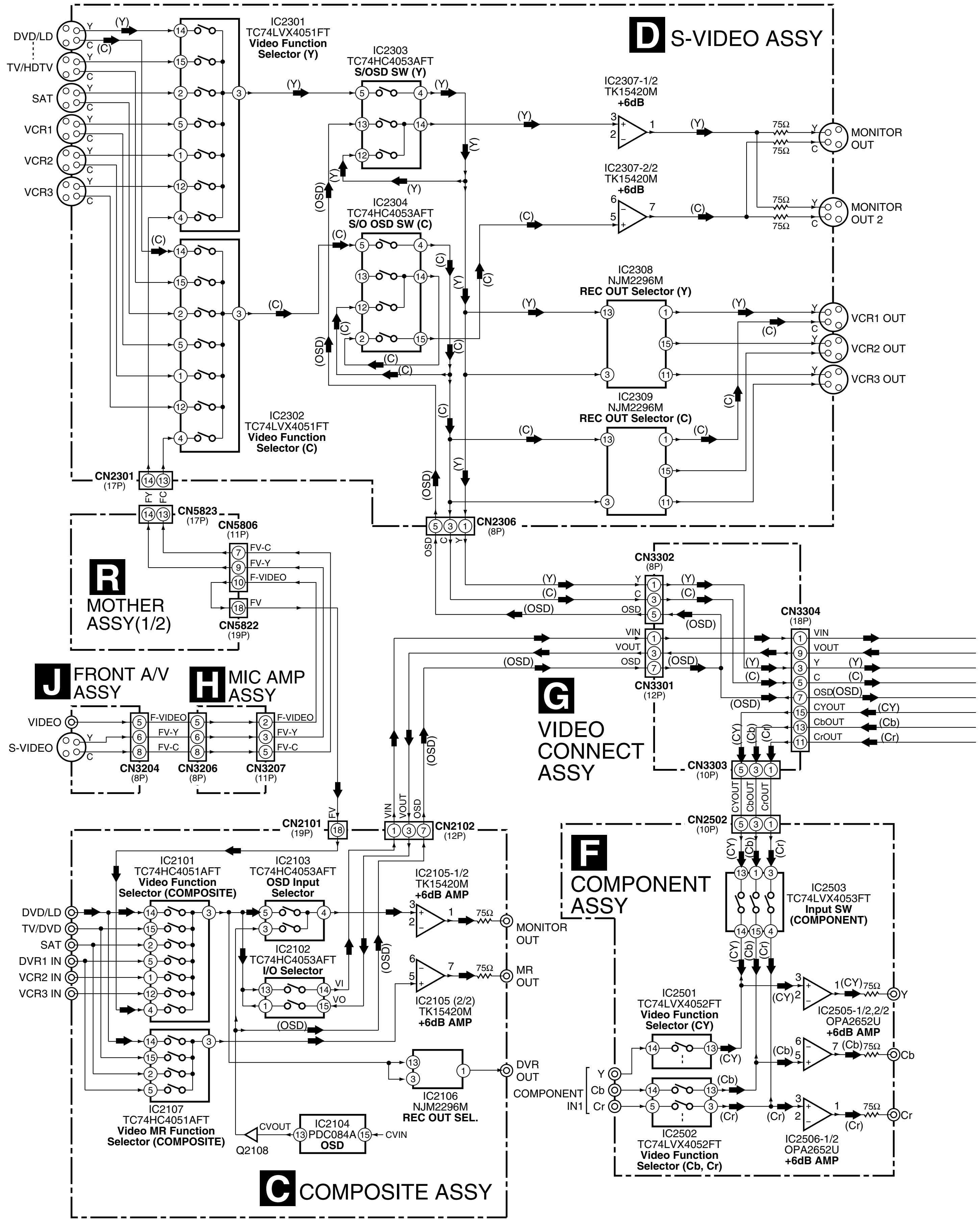
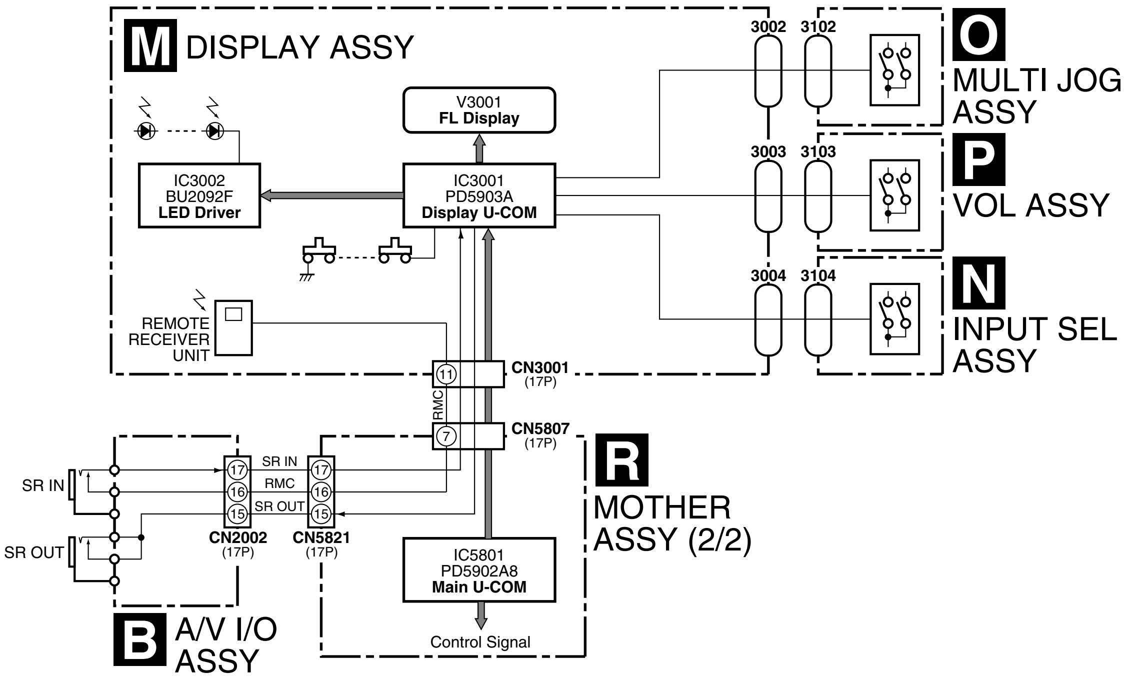
JA3202 SETUP MIC
CN3202
CN3205
IC3201-1/2 M5220FP
MIC AMP
H MIC AMP ASSY
VIDEO L
CN3204
CN3206
Q3204
J FRONT A/V ASSY
PHONE L
CD L
TAPE1 PLAY L
FL IN
TAPE2 PLAY L
TAPE1 REC L
TAPE2 REC L
SL IN
IC3423-2/2 M5220P
IC3422 TC9163AF
Audio Function Selector
IC3424-1/2 UPC4570C
IC3901 BU4052BCF
Audio MR Function Selector
IC3462-2/2 UPC4570C
CN3401 (20P)
VFUNC INL
MR LOUT
MC CIN
MC SBLIN
CN3402 (17P)
EX FLOUT
EX SBLOUT
EX COUT
EX SLOUT
(SB)
(C)
(S)
SLOUT
FLOUT
COUT
SBLOUT
I MIC & OPT ASSY(2/2)
DIGITAL IN
CN3201 (5P)
OPT5 IN
Refer to section " 1394 MODULE Block".
AO 1394 MODULE
JA1
JA2
CN401 (22P)
R MOTHER ASSY(4/5)
CN5804 (5P)
CN5809 (9P)
F OPT
R MOTHER ASSY(3/5)
OPT IN
COAX IN
CN705 (22P)
CN703 (9P)
CN709
CN707
IC3501-2/2 NJM2068D
IC3502-2/2 NJM2068D
IC3421 AK5385VS
Front A/D Converter
CN3403 (30P)
CN5816 (30P)
CN5810 (17P)
CN702 (17P)
ADFFDT
AF DATA
IC3701-2/2
IC3702-2/2
IC3461 AK5385VS
Surround A/D Converter
ADSRDT
AS DATA
IC3601-2/2
IC3602-2/2
IC3441 AK5385VS
C/SW A/D Converter
ADCWDT
AC DATA
IC3801-2/2
IC3802-2/2
IC3481 AK5385VS
Surr Back A/D Converter
ADSBDT
AB DATA
IC3401 TC9163AF
A/D Mode Selector
DIR & DIT
DSP 1 & 2
DSP U-COM
RF Demodulator
S DSP ASSY


R MOTHER ASSY(5/5)
CN5814 (20P)
CN5820 (17P)
VFUNCL
MR OUTL
RECL
(MR)
(F)
(C)
(SB)
CN5817 (9P)
CN5002 (9P)
MC C
MC SDL
CN5815 (17P)
EXFLIN
EXSBLIN
EXCIN
EXSLIN
SBLIN
SLIN
CIN
SBLO
SLO
CTO
FLO
CN5818 (30P)
CN5001 (30P)
CN5813 (17P)
FLIN
CN5819 (24P)
CN5003 (24P)
IC5043-1/2 UPC4570C
IC5083-1/2 UPC4570C
EXC IN
EXSBL IN
IC5181-1/2 NJM2068D
IC5181-2/2 NJM2068D
IC5001 TC9274N-016 Mode Selector
IC5023-1/2 NJM2068D
IC5023-2/2 NJM2068D
Q VR & PRE OUT ASSY
Front Main Volume IC5021 TC94A17F
Pre-Amp IC5022-1/2 OPA2134PA
FRONT
L
Surround Back Main Volume IC5081 TC94A17F
Pre-Amp IC5082-1/2 OPA2134PA
SB L
L/SW Main Volume IC5041 TC94A17F
Pre-Amp IC5042-1/2 OPA2134PA
PREOUT CENTER1
Surround Main Volume IC5061 TC94A17F
Pre-Amp IC5062-1/2 OPA2134PA
SURROUND L
IC5084-2/2 BU4052BCF Surround Back Selector
CN5006 (14P)
FL
SL
SBL
CT
K HEADPHONE ASSY
CN3203 (4P)
PHONES
HPL
V POWER AMP (L) ASSY
Voltage Amp
Current Amp
IC4101 PA9009A
IC4102,IC4103 PBD001A
IC4401 PA9009A
IC4402,IC4403 PBD001A
IC4601 PA9009A
IC4602,IC4603 PBD001A
CN4801 (8P)
J4801
FLO
CO
SLO
SBLO
CN1206 (4P)
CN1203
CN1201
RY1201
RY1202
RY1203
RY1204
SPA
FL
FR
SPC
SL
SR
SBL
SBR
AD SP (A) ASSY
CN1202
J1206
FBL
CN1007
RY1003
SPB
FL
FR
AJ SP (B) ASSY
CN1006
CN4805 (15P)
CN4807 (15P)
IC4301 PA9009A Voltage Amp
C
CG1+
CG1-
IC4302 PBD001A Current Amp
CN4806
CN4808
IC4303 PBD002A Current Amp
ORG
W POWER AMP (C) ASSY
X POWER AMP (R) ASSY
T DSP 3 ASSY
CN501
DSP 3
U DAC 10 ASSY
CN6002
Front Digital Filter IC6021 DF1706E
D/A Converter IC6101 PCM1704U-1
IC6103 NJM5534DD
IC6105-2/2 NJM2068D
IC6105-1/2 NJM2068D
CN6004 (17P)
F
CW
S
SB
Same as the above circuit.
FLO
CTO
SLO
SBLO
(F) : Audio Signal Route (F)
(C) : Audio Signal Route (C)
(S) : Audio Signal Route (S)
(SB) : Audio Signal Route (SB)
(SBL) : Audio Signal Route (SBL)
(MR) : Audio Signal Route (MR)
(REC) : Audio Signal Route (REC)

• Video Block


D S-VIDEO ASSY
IC2301
TC74LVX4051FT
Video Function Selector (Y)
IC2302
TC74LVX4051FT
Video Function Selector (C)
IC2303
TC74HC4053AFT
S/OSD SW (Y)
IC2304
TC74HC4053AFT
S/O OSD SW (C)
IC2307-1/2
TK15420M
+6dB
IC2307-2/2
TK15420M
+6dB
IC2308
NJM2296M
REC OUT Selector (Y)
IC2309
NJM2296M
REC OUT Selector (C)
DVD/LD
TV/HDTV
SAT
VCR1
VCR2
VCR3
MONITOR OUT
MONITOR OUT 2
VCR1 OUT
VCR2 OUT
VCR3 OUT
75Ω
(Y)
(C)
(OSD)
CN2301 (17P)
FY
FC
CN2306 (8P)
OSD
C
Y
CN5823 (17P)
CN5806 (11P)
FV-C
FV-Y
F-VIDEO
FV
CN5822 (19P)
R MOTHER ASSY(1/2)
J FRONT A/V ASSY
H MIC AMP ASSY
VIDEO
S-VIDEO
CN3204 (8P)
CN3206 (8P)
CN3207 (11P)
G VIDEO CONNECT ASSY
CN3302 (8P)
CN3301 (12P)
CN3303 (10P)
CN3304 (18P)
VIN
VOUT
OSD
CYOUT
CbOUT
CrOUT
(CY)
(Cb)
(Cr)
CN2101 (19P)
CN2102 (12P)
CN2502 (10P)
C COMPOSITE ASSY
IC2101
TC74HC4051AFT
Video Function Selector (COMPOSITE)
IC2103
TC74HC4053AFT
OSD Input Selector
IC2102
TC74HC4053AFT
I/O Selector
VI
VO
IC2105-1/2
TK15420M
+6dB AMP
IC2105 (2/2)
TK15420M
+6dB AMP
IC2106
NJM2296M
REC OUT SEL.
IC2107
TC74HC4051AFT
Video MR Function Selector (COMPOSITE)
IC2104
PDC084A
OSD
CVOUT
CVIN
Q2108
DVD/LD
TV/DVD
SAT
DVR1 IN
VCR2 IN
VCR3 IN
MONITOR OUT
MR OUT
DVR OUT
F COMPONENT ASSY
IC2503
TC74LVX4053FT
Input SW (COMPONENT)
IC2501
TC74LVX4052FT
Video Function Selector (CY)
IC2502
TC74LVX4052FT
Video Function Selector (Cb, Cr)
IC2505-1/2,2/2
OPA2652U
+6dB AMP
IC2506-1/2
OPA2652U
+6dB AMP
COMPONENT IN1
Y
Cb
Cr

• Display Block


M DISPLAY ASSY
V3001
FL Display
IC3002
BU2092F
LED Driver
IC3001
PD5903A
Display U-COM
REMOTE
RECEIVER
UNIT
3002
3102
3003
3103
3004
3104
O MULTI JOG ASSY
P VOL ASSY
N INPUT SEL ASSY
CN3001
(17P)
RMC
CN5807
(17P)
R MOTHER ASSY (2/2)
SR IN
SR OUT
SR IN
RMC
SR OUT
CN2002
(17P)
CN5821
(17P)
IC5801
PD5902A8
Main U-COM
Control Signal
B A/V I/O ASSY

➡ : VIDEO SIGNAL ROUTE

(Y) ➡ : VIDEO SIGNAL ROUTE (Y)

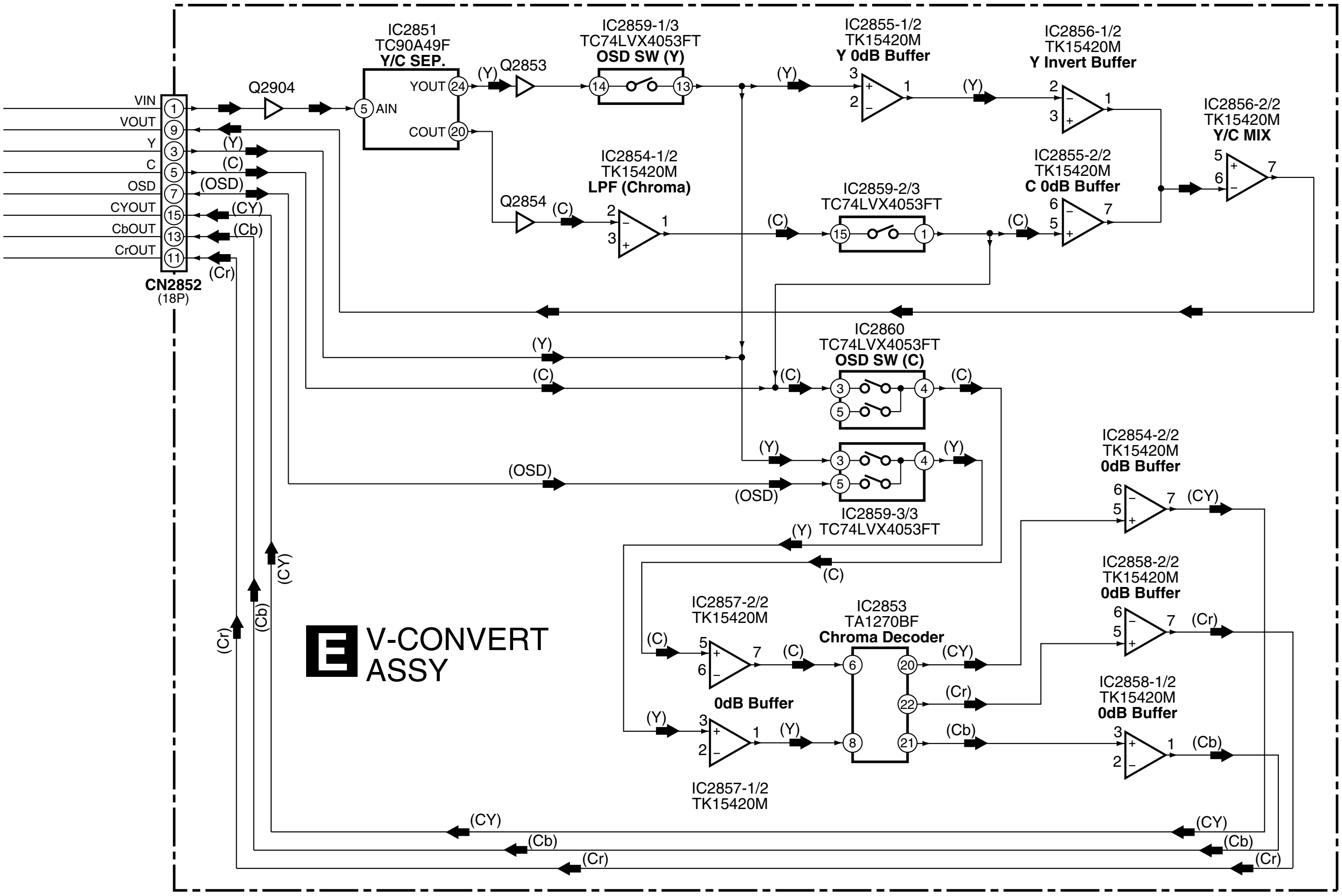
(C) ➡ : VIDEO SIGNAL ROUTE (C)

(CY) ➡ : Y SIGNAL ROUTE (COMPONENT)

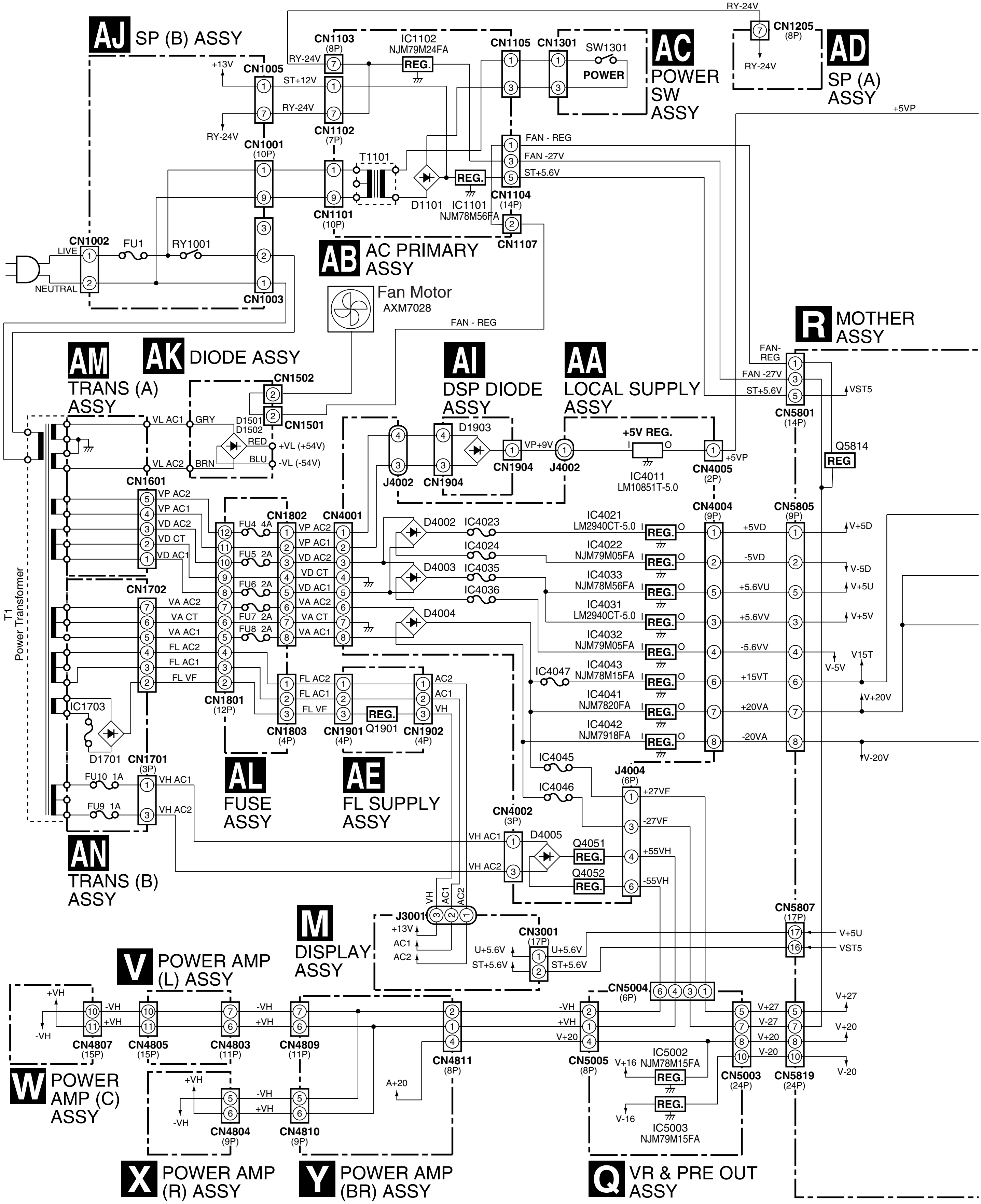
(Cb) ➡ : Cb SIGNAL ROUTE (COMPONENT)

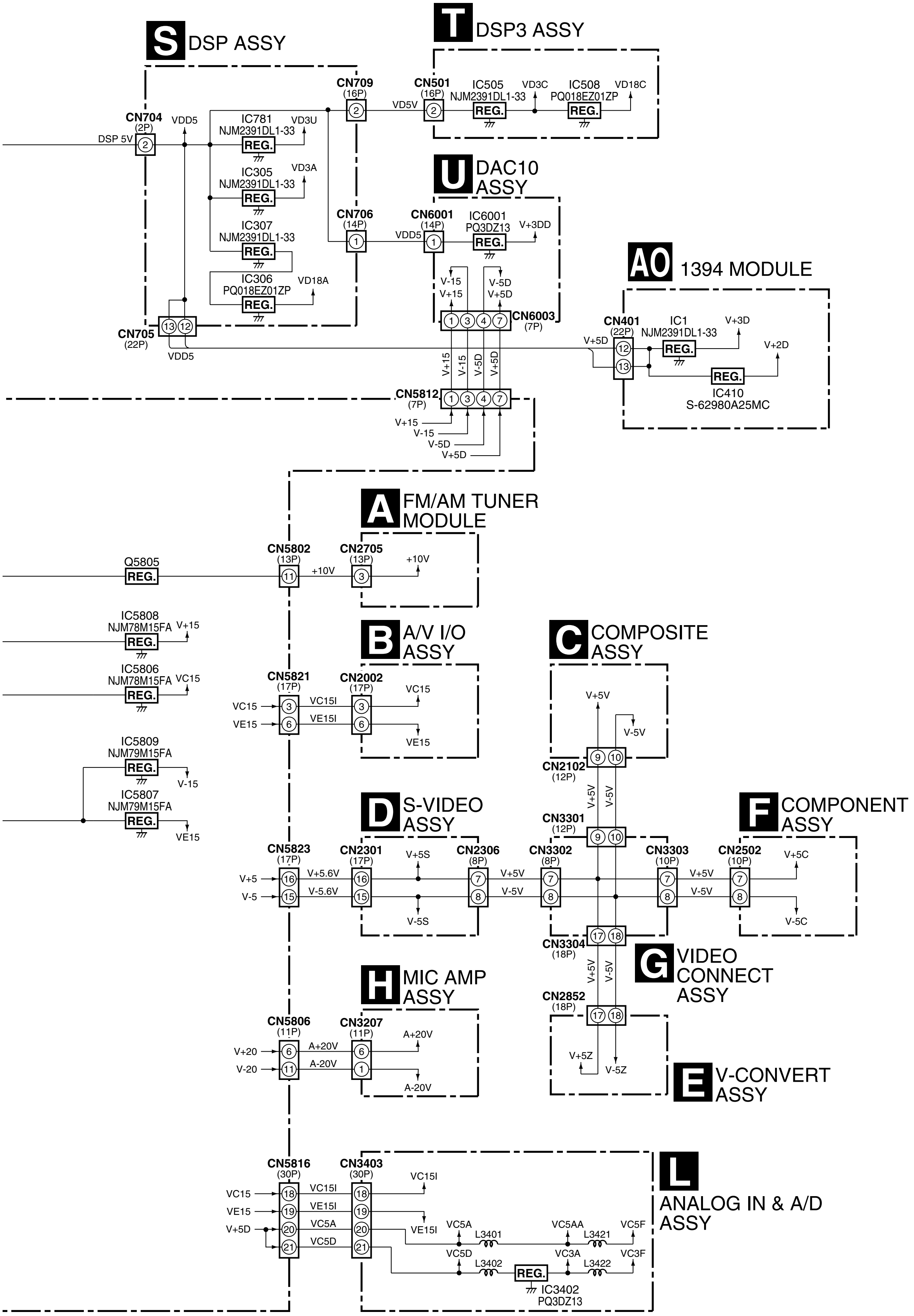
(Cr) ➡ : Cr SIGNAL ROUTE (COMPONENT)

(OSD) ➡ : VIDEO SIGNAL ROUTE (OSD)

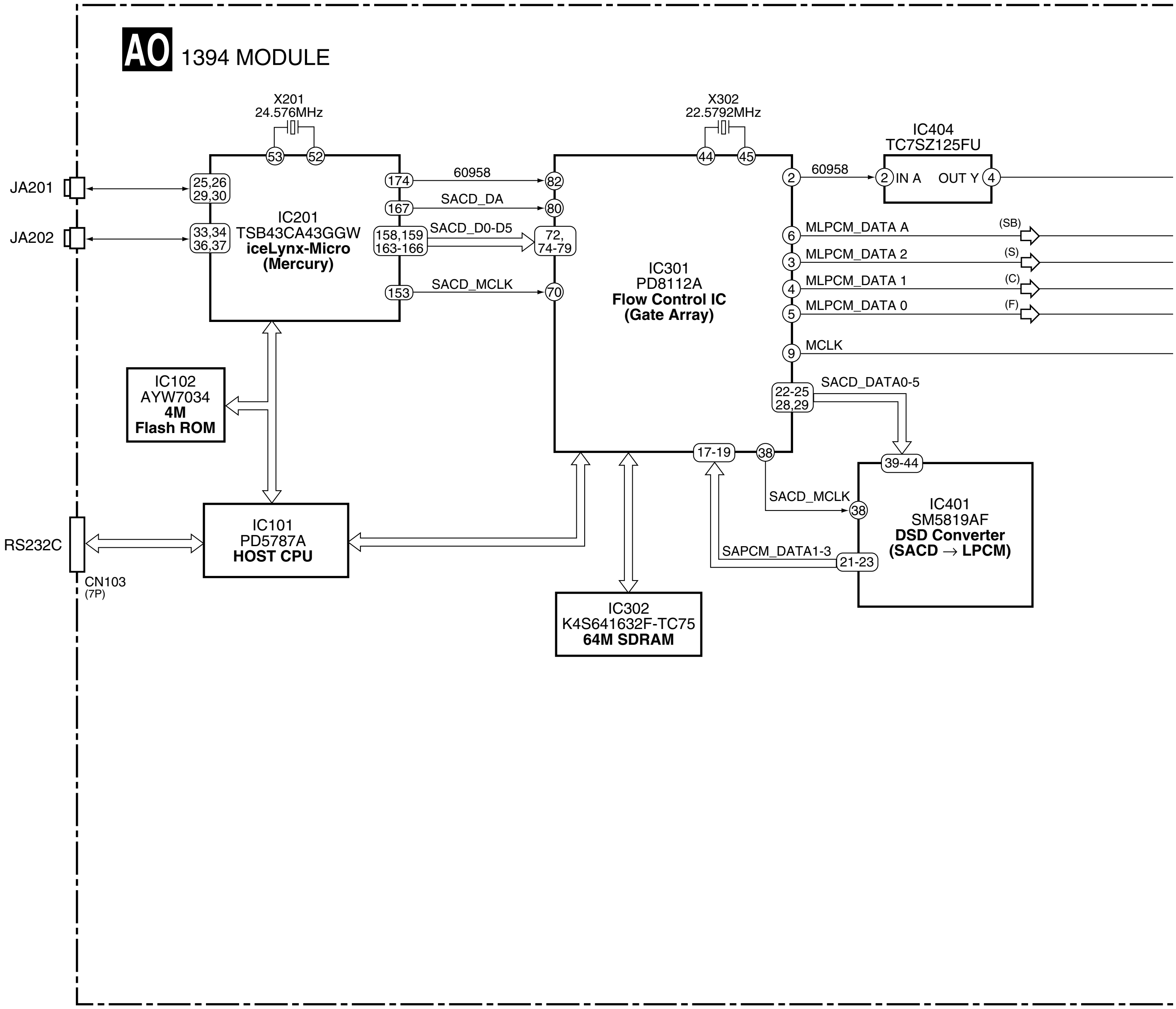

VIN
VOUT
Y
C
OSD
CYOUT
CbOUT
CrOUT
CN2852
(18P)
Q2904
IC2851
TC90A49F
Y/C SEP.
YOUT
AIN
COUT
Q2853
Q2854
IC2859-1/3
TC74LVX4053FT
OSD SW (Y)
IC2855-1/2
TK15420M
Y 0dB Buffer
IC2856-1/2
TK15420M
Y Invert Buffer
IC2856-2/2
TK15420M
Y/C MIX
IC2854-1/2
TK15420M
LPF (Chroma)
IC2859-2/3
TC74LVX4053FT
IC2855-2/2
TK15420M
C 0dB Buffer
IC2860
TC74LVX4053FT
OSD SW (C)
IC2859-3/3
TC74LVX4053FT
IC2854-2/2
TK15420M
0dB Buffer
IC2858-2/2
TK15420M
0dB Buffer
IC2857-2/2
TK15420M
IC2853
TA1270BF
Chroma Decoder
0dB Buffer
IC2858-1/2
TK15420M
0dB Buffer
IC2857-1/2
TK15420M
E V-CONVERT ASSY

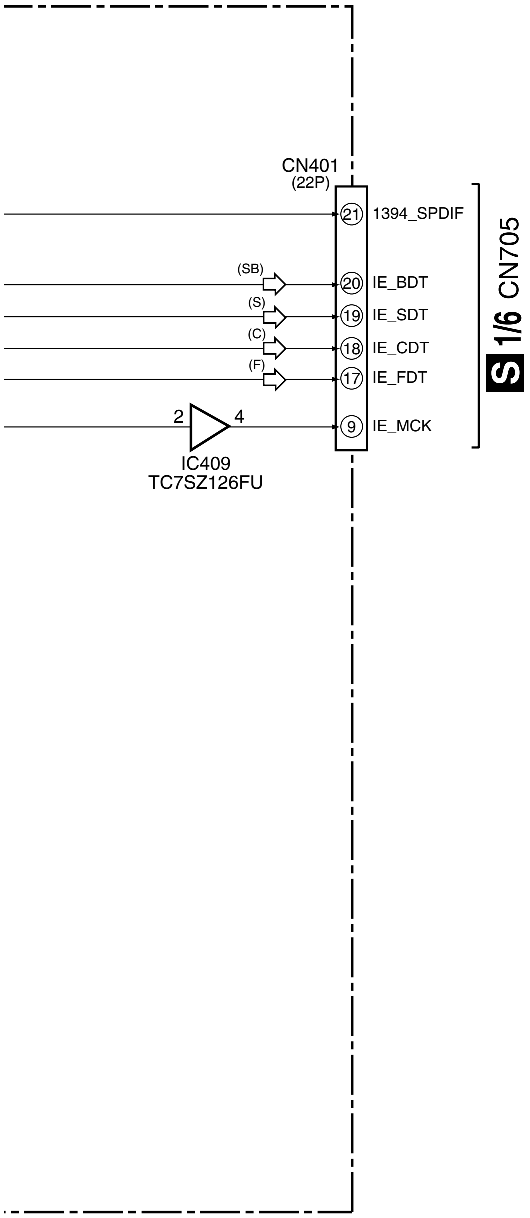
● Power Supply Block


AJ SP (B) ASSY
CN1005
+13V
ST+12V
RY-24V
CN1001 (10P)
CN1002
LIVE
NEUTRAL
FU1
RY1001
CN1003
CN1103 (8P)
IC1102 NJM79M24FA
REG.
CN1102 (7P)
T1101
CN1101 (10P)
D1101
IC1101 NJM78M56FA
CN1105
CN1301
SW1301
POWER
AC POWER SW ASSY
CN1104 (14P)
CN1107
FAN - REG
FAN -27V
ST+5.6V
AB AC PRIMARY ASSY
Fan Motor AXM7028
RY-24V
CN1205 (8P)
AD SP (A) ASSY
+5VP
R MOTHER ASSY
FAN-REG
CN5801 (14P)
VST5
Q5814
REG
AM TRANS (A) ASSY
AK DIODE ASSY
CN1502
CN1501
VL AC1
VL AC2
GRY
BRN
D1501 D1502
RED
BLU
+VL (+54V)
-VL (-54V)
AI DSP DIODE ASSY
D1903
J4002
CN1904
VP+9V
AA LOCAL SUPPLY ASSY
+5V REG.
IC4011 LM10851T-5.0
CN4005 (2P)
+5VP
T1 Power Transformer
CN1601
VP AC2
VP AC1
VD AC2
VD CT
VD AC1
CN1702
VA AC2
VA CT
VA AC1
FL AC2
FL AC1
FL VF
IC1703
D1701
CN1701 (3P)
FU10 1A
FU9 1A
VH AC1
VH AC2
CN1802
FU4 4A
FU5 2A
FU6 2A
FU7 2A
FU8 2A
CN1801 (12P)
CN4001
D4002
D4003
D4004
IC4023
IC4024
IC4035
IC4036
IC4021 LM2940CT-5.0
IC4022 NJM79M05FA
IC4033 NJM78M56FA
IC4031 LM2940CT-5.0
IC4032 NJM79M05FA
IC4043 NJM78M15FA
IC4041 NJM7820FA
IC4042 NJM7918FA
IC4047
CN4004 (9P)
+5VD
-5VD
+5.6VU
+5.6VV
-5.6VV
+15VT
+20VA
-20VA
CN5805 (9P)
V+5D
V-5D
V+5U
V+5V
V15T
V-5V
V+20V
V-20V
CN1803 (4P)
CN1901 (4P)
Q1901
CN1902 (4P)
AC2
AC1
VH
AL FUSE ASSY
AE FL SUPPLY ASSY
AN TRANS (B) ASSY
IC4045
IC4046
J4004 (6P)
+27VF
-27VF
+55VH
-55VH
CN4002 (3P)
D4005
Q4051
Q4052
M DISPLAY ASSY
J3001
+13V
AC1
AC2
CN3001 (17P)
U+5.6V
ST+5.6V
CN5807 (17P)
V+5U
VST5
V POWER AMP (L) ASSY
+VH
-VH
CN4807 (15P)
CN4805 (15P)
CN4803 (11P)
CN4809 (11P)
CN4811 (8P)
A+20
CN5004 (6P)
CN5005 (8P)
V+20
CN5003 (24P)
CN5819 (24P)
V+27
V-27
V-20
IC5002 NJM78M15FA
IC5003 NJM79M15FA
V+16
V-16
W POWER AMP (C) ASSY
CN4804 (9P)
CN4810 (9P)
X POWER AMP (R) ASSY
Y POWER AMP (BR) ASSY
Q VR & PRE OUT ASSY


S DSP ASSY
T DSP3 ASSY
U DAC10 ASSY
AO 1394 MODULE
A FM/AM TUNER MODULE
B A/V I/O ASSY
C COMPOSITE ASSY
D S-VIDEO ASSY
F COMPONENT ASSY
G VIDEO CONNECT ASSY
H MIC AMP ASSY
E V-CONVERT ASSY
L ANALOG IN & A/D ASSY
CN704 (2P)
DSP 5V
VDD5
IC781 NJM2391DL1-33
REG.
VD3U
IC305 NJM2391DL1-33
VD3A
IC307 NJM2391DL1-33
IC306 PQ018EZ01ZP
VD18A
CN705 (22P)
VDD5
CN709 (16P)
VD5V
CN501 (16P)
IC505 NJM2391DL1-33
VD3C
IC508 PQ018EZ01ZP
VD18C
CN706 (14P)
VDD5
CN6001 (14P)
IC6001 PQ3DZ13
V+3DD
V-15
V+15
V-5D
V+5D
CN6003 (7P)
CN5812 (7P)
CN401 (22P)
IC1 NJM2391DL1-33
V+3D
V+2D
V+5D
IC410 S-62980A25MC
Q5805
CN5802 (13P)
+10V
CN2705 (13P)
+10V
IC5808 NJM78M15FA
V+15
IC5806 NJM78M15FA
VC15
IC5809 NJM79M15FA
V-15
IC5807 NJM79M15FA
VE15
CN5821 (17P)
VC15
VE15
VC15I
VE15I
CN2002 (17P)
VC15
VE15
V+5V
V-5V
CN2102 (12P)
CN3301 (12P)
CN5823 (17P)
V+5
V-5
V+5.6V
V-5.6V
CN2301 (17P)
V+5S
V-5S
CN2306 (8P)
V+5V
V-5V
CN3302 (8P)
CN3303 (10P)
V+5V
V-5V
CN2502 (10P)
V+5C
V-5C
CN3304 (18P)
CN2852 (18P)
V+5Z
V-5Z
CN5806 (11P)
V+20
V-20
A+20V
A-20V
CN3207 (11P)
A+20V
A-20V
CN5816 (30P)
VC15
VE15
V+5D
VC15I
VE15I
VC5A
VC5D
CN3403 (30P)
VC15I
VE15I
VC5A
L3401
VC5AA
L3421
VC5F
VC5D
L3402
VC3A
L3422
VC3F
IC3402 PQ3DZ13

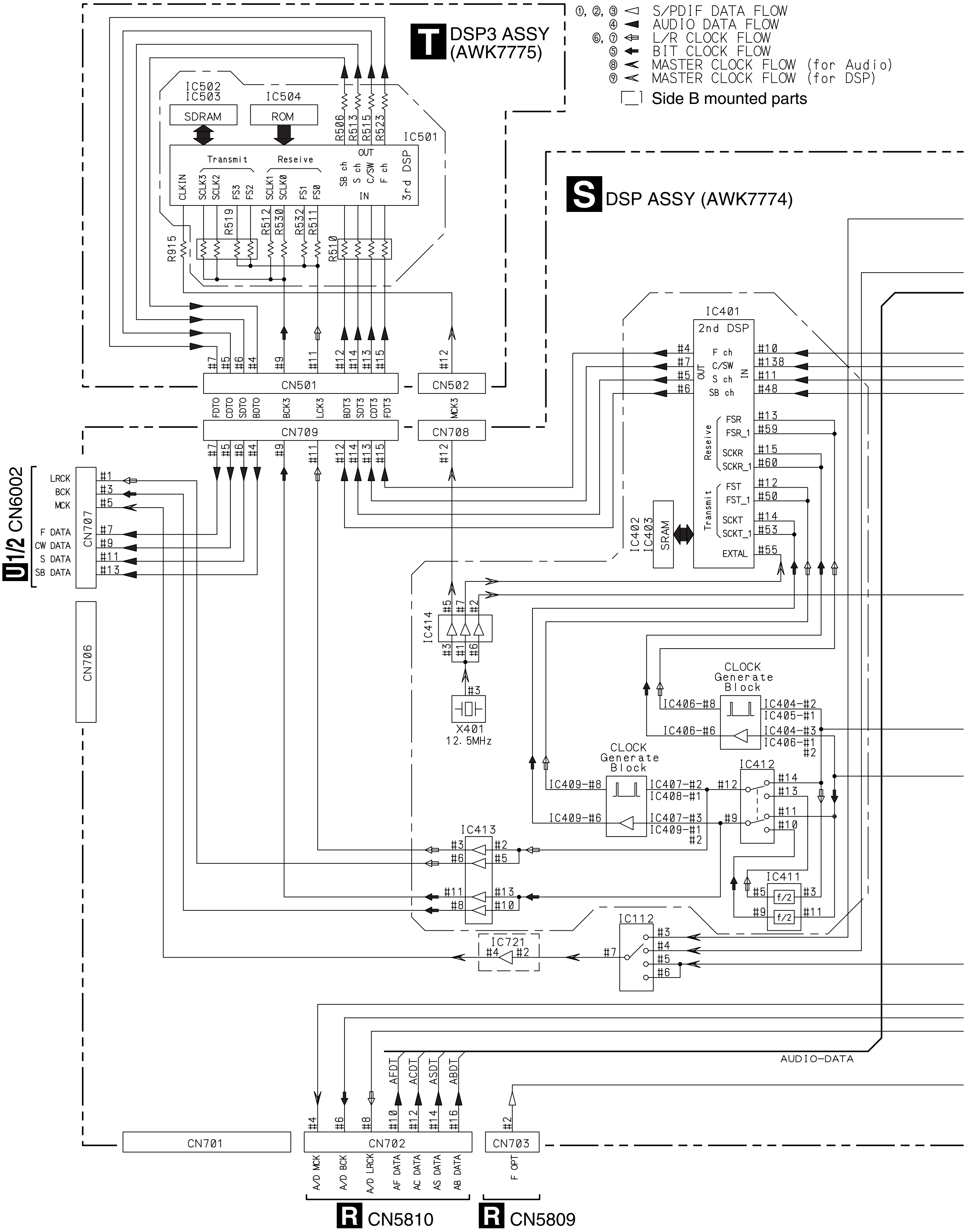
● 1394 MODULE Block

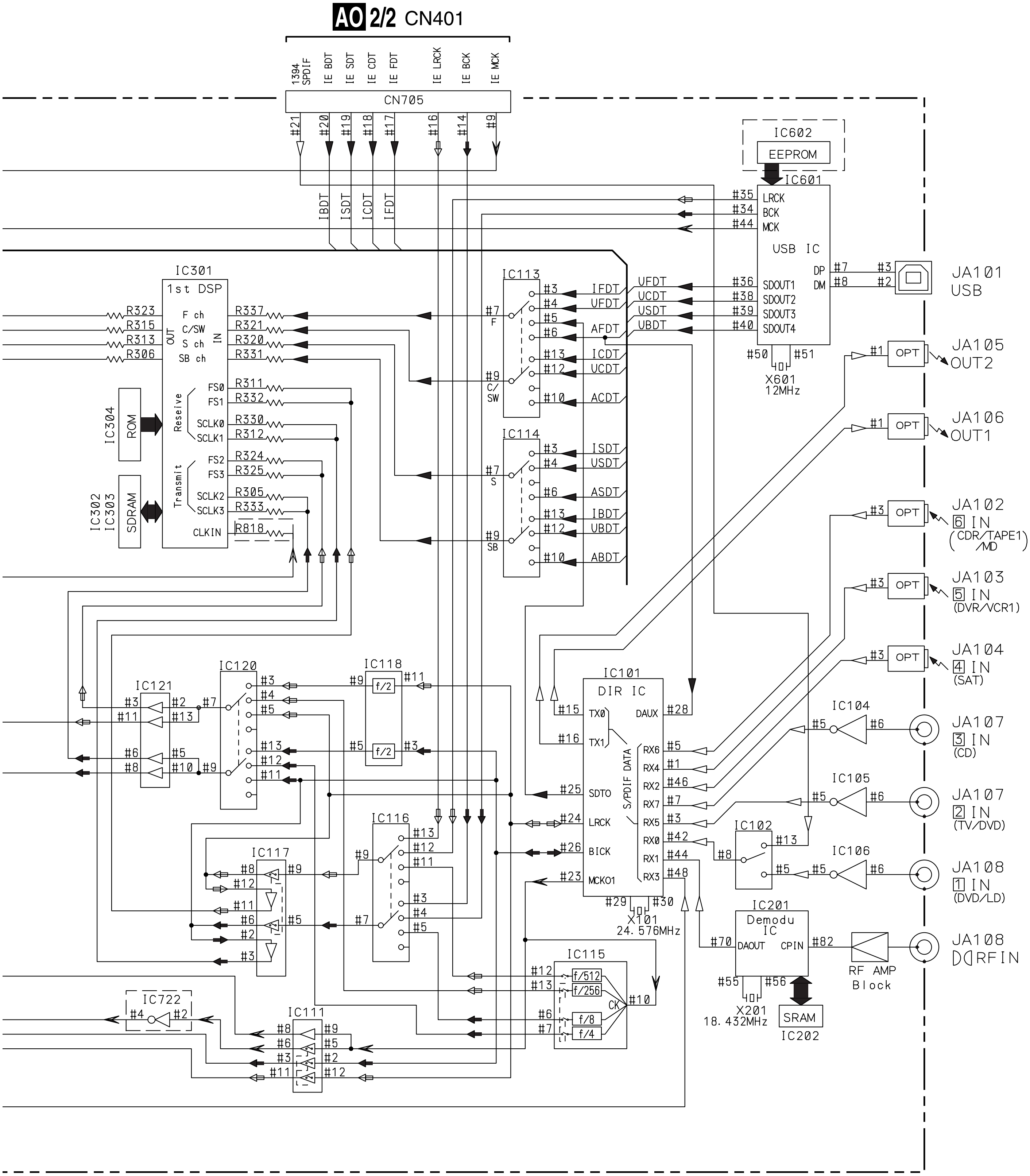

AO 1394 MODULE
X201
24.576MHz
53
52
X302
22.5792MHz
44
45
IC404
TC7SZ125FU
2 IN A
OUT Y 4
JA201
25,26
29,30
JA202
33,34
36,37
IC201
TSB43CA43GGW
iceLynx-Micro
(Mercury)
174
60958
82
167
SACD_DA
80
158,159
163-166
SACD_D0-D5
72,
74-79
153
SACD_MCLK
70
IC301
PD8112A
Flow Control IC
(Gate Array)
2
60958
6
MLPCM_DATA A
(SB)
3
MLPCM_DATA 2
(S)
4
MLPCM_DATA 1
(C)
5
MLPCM_DATA 0
(F)
9
MCLK
22-25
28,29
SACD_DATA0-5
IC102
AYW7034
4M
Flash ROM
17-19
38
39-44
SACD_MCLK
38
IC401
SM5819AF
DSD Converter
(SACD → LPCM)
RS232C
IC101
PD5787A
HOST CPU
SAPCM_DATA1-3
21-23
CN103
(7P)
IC302
K4S641632F-TC75
64M SDRAM


CN401
(22P)
21 1394_SPDIF
(SB)
20 IE_BDT
(S)
19 IE_SDT
(C)
18 IE_CDT
(F)
17 IE_FDT
2
4
9 IE_MCK
IC409
TC7SZ126FU
S 1/6 CN705

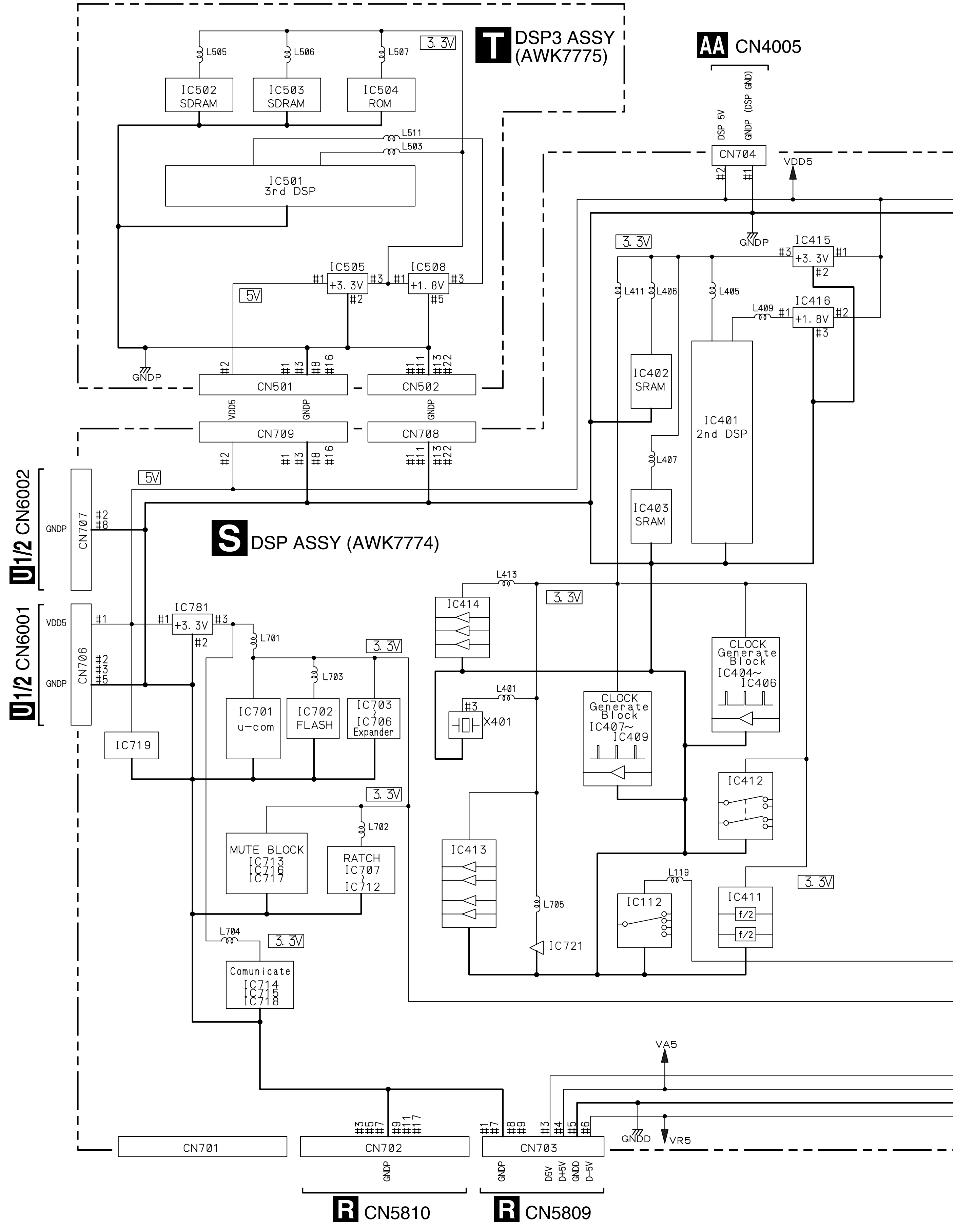
(F) ⇨ : Audio Signal Route (F)
(C) ⇨ : Audio Signal Route (C)
(S) ⇨ : Audio Signal Route (S)
(SB) ⇨ : Audio Signal Route (SB)

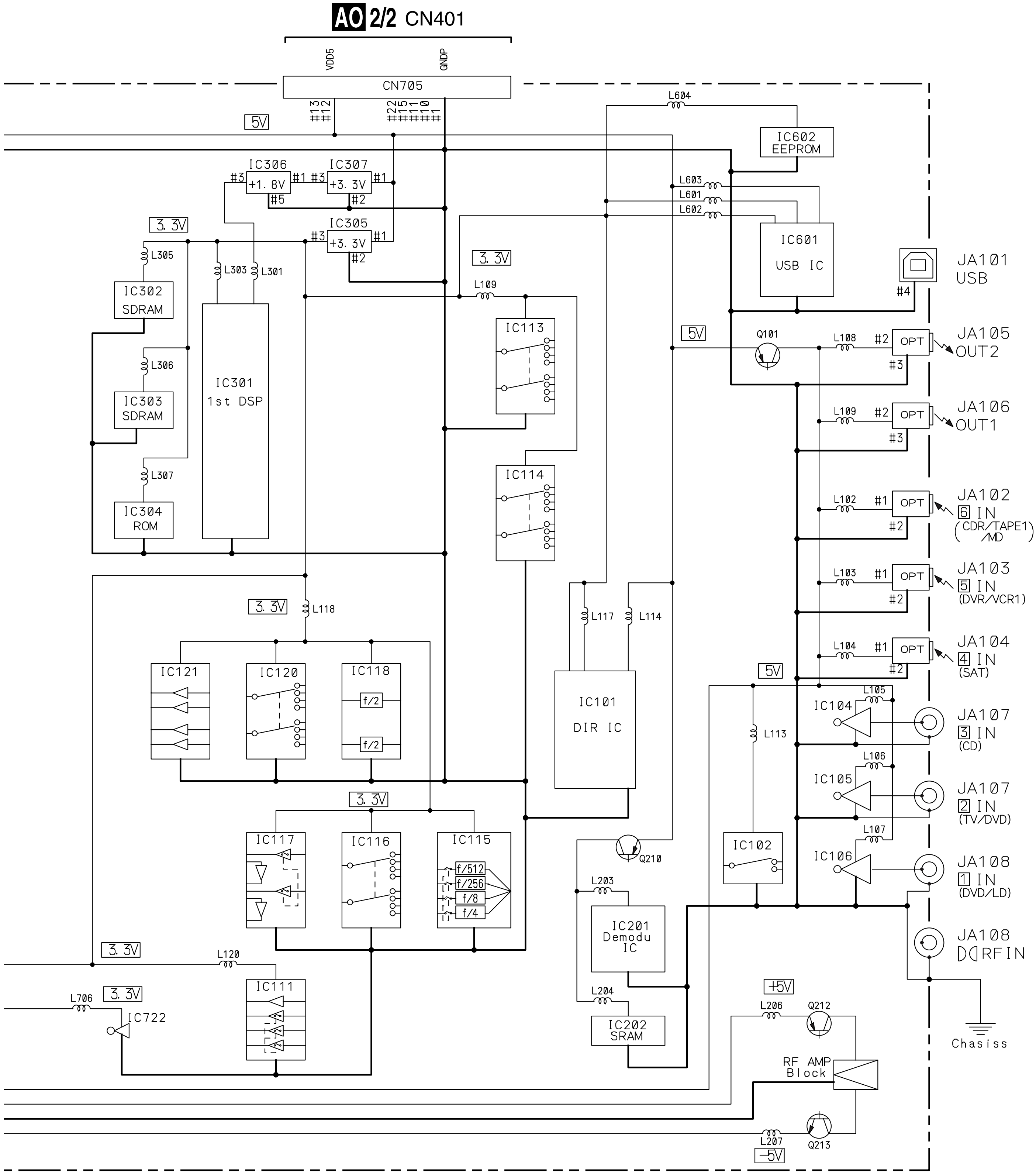
● DSP Clock Flow Diagram


①, ②, ③ ◁ S/PDIF DATA FLOW
④ ◀ AUDIO DATA FLOW
⑥, ⑦ ⇦ L/R CLOCK FLOW
⑤ ← BIT CLOCK FLOW
⑧ ≺ MASTER CLOCK FLOW (for Audio)
⑨ ≺ MASTER CLOCK FLOW (for DSP)
Side B mounted parts
T DSP3 ASSY (AWK7775)
IC502 IC503 SDRAM
IC504 ROM
IC501 3rd DSP
Transmit Reseive
CLKIN SCLK3 SCLK2 FS3 FS2 SCLK1 SCLK0 FS1 FS0
SB ch S ch C/SW F ch OUT IN
R506 R513 R515 R523
R915 R519 R512 R530 R532 R511 R510
CN501 CN502
#7 #5 #6 #4 #9 #11 #12 #14 #13 #15 #12
FDTO CDTO SDTO BDTO BCK3 LCK3 BDT3 SDT3 CDT3 FDT3 MCK3
CN709 CN708
S DSP ASSY (AWK7774)
IC401 2nd DSP
F ch C/SW S ch SB ch OUT IN
#4 #7 #5 #6 #10 #138 #11 #48
FSR FSR_1 SCKR SCKR_1 Reseive
#13 #59 #15 #60
FST FST_1 SCKT SCKT_1 EXTAL Transmit
#12 #50 #14 #53 #55
IC402 IC403 SRAM
U 1/2 CN6002
LRCK BCK MCK F DATA CW DATA S DATA SB DATA
#1 #3 #5 #7 #9 #11 #13
CN707
CN706
IC414 #5 #7 #2 #3 #1 #6
X401 12.5MHz #3
CLOCK Generate Block
IC406-#8 IC406-#6 IC404-#2 IC405-#1 IC404-#3 IC406-#1 #2
CLOCK Generate Block
IC409-#8 IC409-#6 IC407-#2 IC408-#1 IC407-#3 IC409-#1 #2
IC412 #12 #9 #14 #13 #11 #10
IC413 #3 #6 #11 #8 #2 #5 #13 #10
IC411 #5 #9 f/2 #3 #11
IC112 #3 #4 #5 #6 #7
IC721 #4 #2
AUDIO-DATA
AFDT ACDT ASDT ABDT
#4 #6 #8 #10 #12 #14 #16 #2
CN701 CN702 CN703
A/D MCK A/D BCK A/D LRCK AF DATA AC DATA AS DATA AB DATA F OPT
R CN5810 R CN5809

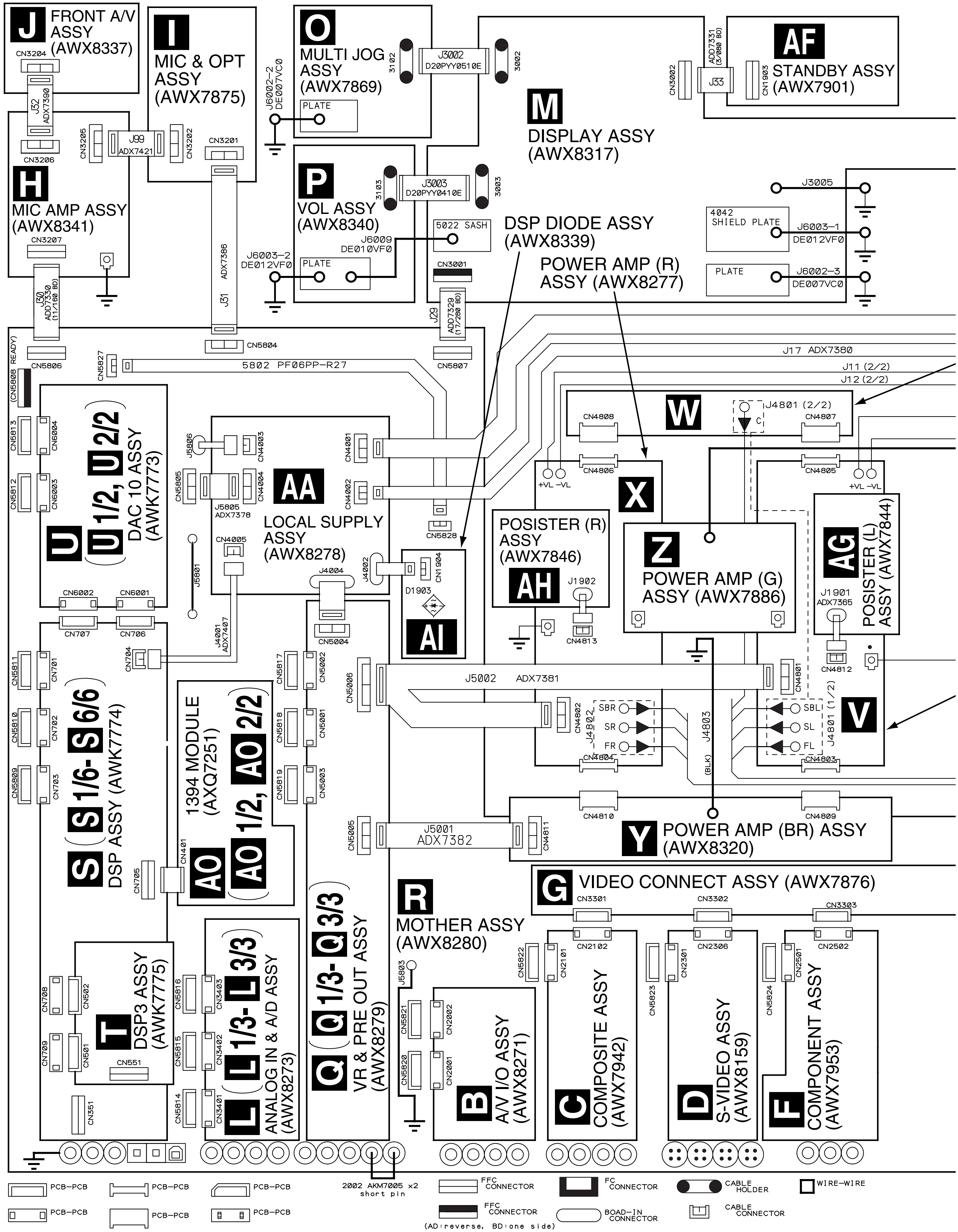

AO 2/2 CN401
1394 SPDIF
IE BDT
IE SDT
IE CDT
IE FDT
IE LRCK
IE BCK
IE MCK
CN705
#21
#20
#19
#18
#17
#16
#14
#9
IBDT
ISDT
ICDT
IFDT
IC602
EEPROM
IC601
#35
#34
#44
LRCK
BCK
MCK
USB IC
#36
#38
#39
#40
SDOUT1
SDOUT2
SDOUT3
SDOUT4
DP
DM
#7
#8
#3
#2
#50
#51
X601
12MHz
JA101
USB
IC301
1st DSP
R323
R315
R313
R306
F ch
C/SW
S ch
SB ch
OUT
IN
R337
R321
R320
R331
Reseive
FS0
FS1
SCLK0
SCLK1
R311
R332
R330
R312
Transmit
FS2
FS3
SCLK2
SCLK3
CLKIN
R324
R325
R305
R333
R818
IC304
ROM
IC302
IC303
SDRAM
IC113
#3
#4
#5
#6
#7
F
#9
C/SW
#13
#12
#10
IFDT
UFDT
AFDT
ICDT
UCDT
ACDT
UFDT
UCDT
USDT
UBDT
IC114
#3
#4
#7
S
#6
#13
#12
#9
SB
#10
ISDT
USDT
ASDT
IBDT
UBDT
ABDT
JA105
OUT2
JA106
OUT1
#1
OPT
JA102
6 IN
(CDR/TAPE1/MD)
JA103
5 IN
(DVR/VCR1)
JA104
4 IN
(SAT)
#3
IC101
DIR IC
#15
#16
TX0
TX1
DAUX
#28
#25
SDTO
#24
LRCK
#26
BICK
#23
MCKO1
S/PDIF DATA
RX6
RX4
RX2
RX7
RX5
RX0
RX1
RX3
#5
#1
#46
#7
#3
#42
#44
#48
#29
#30
X101
24.576MHz
IC104
#5
#6
JA107
3 IN
(CD)
IC105
#5
#6
JA107
2 IN
(TV/DVD)
IC102
#8
#13
#5
IC106
#5
#6
JA108
1 IN
(DVD/LD)
IC201
Demodu IC
#70
DAOUT
CPIN
#82
#55
#56
X201
18.432MHz
SRAM
IC202
RF AMP Block
JA108
DD RF IN
IC121
#3
#2
#11
#13
#6
#5
#8
#10
#7
#9
IC120
#3
#4
#5
#13
#12
#11
IC118
#9
#11
f/2
#5
#3
f/2
IC117
#8
#9
#12
#11
#6
#5
#2
#3
IC116
#9
#13
#12
#11
#3
#4
#5
#7
IC115
#12
#13
f/512
f/256
#6
#7
f/8
f/4
CK
#10
IC722
#4
#2
IC111
#8
#9
#6
#5
#3
#2
#11
#12

● POWER/GND MAP(DSP3, DSP)

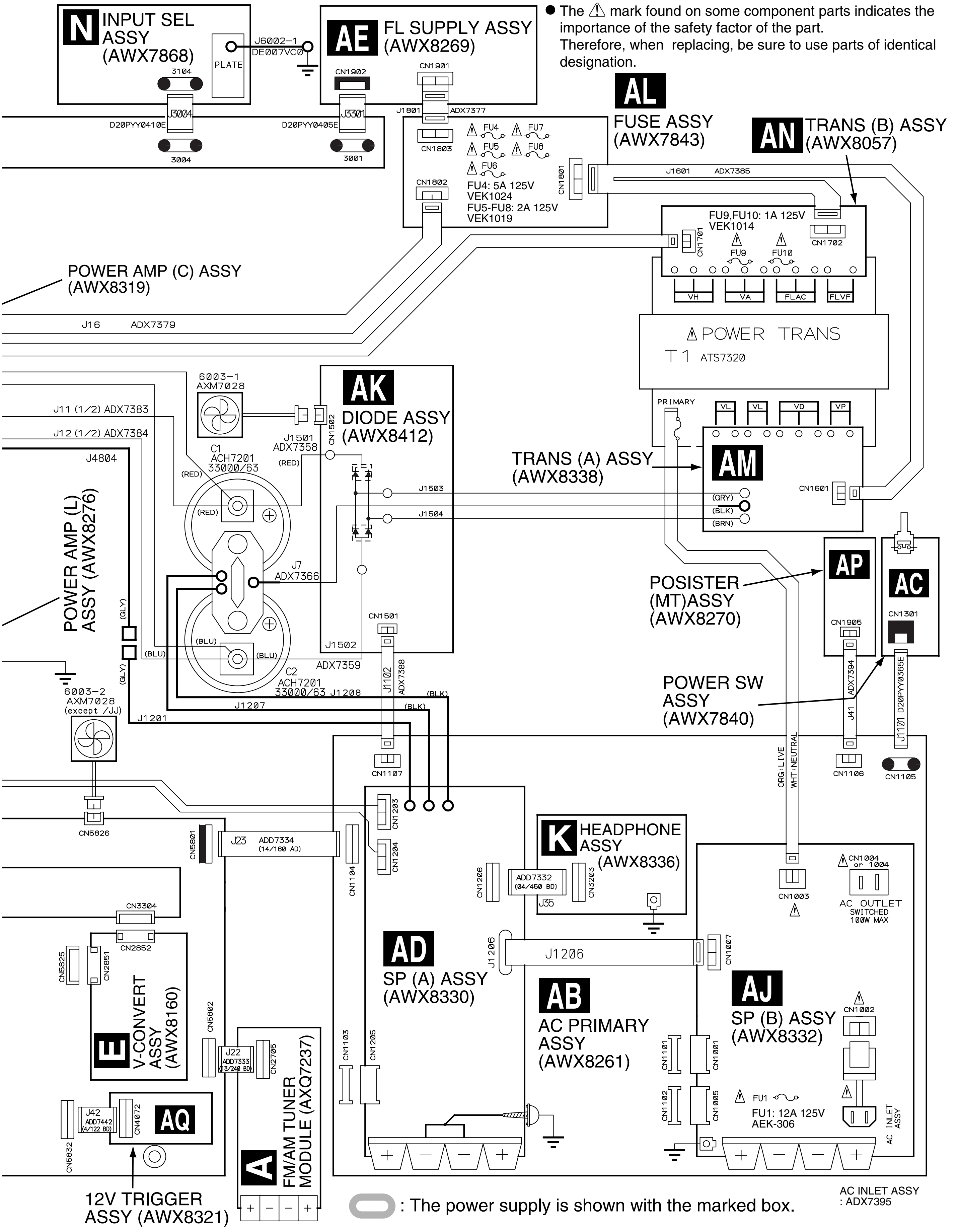

T DSP3 ASSY (AWK7775)
3.3V
L505
L506
L507
IC502 SDRAM
IC503 SDRAM
IC504 ROM
L511
L503
IC501 3rd DSP
IC505 +3.3V #1 #3 #2
IC508 +1.8V #1 #3 #5
5V
GNDP
CN501 #2 #1 #3 #8 #16
CN502 #1 #11 #13 #22
VDD5
GNDP
GNDP
CN709 #2 #1 #3 #8 #16
CN708 #1 #11 #13 #22
AA CN4005
DSP 5V
GNDP (DSP GND)
CN704 #2 #1
VDD5
GNDP
IC415 +3.3V #3 #1 #2
IC416 +1.8V #1 #2 #3
L411
L406
L405
L409
IC402 SRAM
L407
IC403 SRAM
IC401 2nd DSP
U1/2 CN6002
GNDP
CN707 #2 #8
S DSP ASSY (AWK7774)
U1/2 CN6001
VDD5
GNDP
CN706 #1 #2 #3 #5
IC781 +3.3V #1 #3 #2
L701
5V
IC719
3.3V
L703
IC701 u-com
IC702 FLASH
IC703 IC706 Expander
3.3V
MUTE BLOCK IC713 IC716 IC717
L702
RATCH IC707 IC712
L704
3.3V
Comunicate IC714 IC715 IC718
L413
3.3V
IC414
L401
#3
X401
CLOCK Generate Block IC407~IC409
CLOCK Generate Block IC404~IC406
IC412
IC413
L705
IC721
L119
IC112
IC411 f/2 f/2
3.3V
VA5
GNDD
VR5
CN701
CN702 #3 #5 #7 #9 #11 #17
GNDP
CN703 #1 #7 #8 #9 #3 #4 #5 #6
GNDP D5V D+5V GNDD D-5V
R CN5810
R CN5809


AO 2/2 CN401
VDD5
GNDP
CN705
#13 #12
#22 #15 #11 #10 #1
5V
L604
IC602 EEPROM
IC306 +1.8V #3 #1 #5
IC307 +3.3V #3 #1 #2
L603
L601
L602
IC305 +3.3V #3 #1 #2
3.3V
L305
L303
L301
IC302 SDRAM
IC601 USB IC
JA101 USB
#4
3.3V
L109
IC113
IC301 1st DSP
L306
IC303 SDRAM
5V
Q101
L108 #2 OPT #3
JA105 OUT2
L109 #2 OPT #3
JA106 OUT1
L307
IC304 ROM
IC114
L102 #1 OPT #2
JA102 6 IN (CDR/TAPE1 /MD)
L103 #1 OPT #2
JA103 5 IN (DVR/VCR1)
L104 #1 OPT #2
JA104 4 IN (SAT)
3.3V
L118
L117
L114
IC121
IC120
IC118 f/2 f/2
IC101 DIR IC
5V
L105
IC104
JA107 3 IN (CD)
L113
L106
IC105
JA107 2 IN (TV/DVD)
3.3V
IC117
IC116
IC115 f/512 f/256 f/8 f/4
Q210
IC102
L107
IC106
JA108 1 IN (DVD/LD)
L203
IC201 Demodu IC
JA108 RF IN
3.3V
L120
IC111
L706
3.3V
IC722
L204
IC202 SRAM
+5V
L206
Q212
Chasiss
RF AMP Block
L207
Q213
-5V

3.2 OVERALL WIRING DIAGRAM


A
B
C
D
E
F
J FRONT A/V ASSY (AWX8337)
CN3204
J32 ADX7390
I MIC & OPT ASSY (AWX7875)
CN3205
J99 ADX7421
CN3202
CN3201
CN3206
H MIC AMP ASSY (AWX8341)
CN3207
J30 ADD7330 (11/160 BD)
J31 ADX7386
O MULTI JOG ASSY (AWX7869)
PLATE
3102
J3002 D20PYY0510E
3002
J6002-2 DE007VC0
P VOL ASSY (AWX8340)
3103
J3003 D20PYY0410E
3003
J6009 DE010VF0
J6003-2 DE012VF0
PLATE
5022 SASH
CN3001
J29 ADD7329 (17/280 BD)
M DISPLAY ASSY (AWX8317)
AF STANDBY ASSY (AWX7901)
CN3002
ADD7331 (3/080 BD)
J33
CN1903
J3005
4042 SHIELD PLATE
J6003-1 DE012VF0
PLATE
J6002-3 DE007VC0
DSP DIODE ASSY (AWX8339)
POWER AMP (R) ASSY (AWX8277)
J17 ADX7380
J11 (2/2)
J12 (2/2)
CN5806
CN5808 (READY)
CN5804
CN5807
CN5827
5802 PF06PP-R27
W
CN4808
J4801 (2/2)
CN4807
C
CN5813
CN6004
CN5812
CN6003
U U 1/2, U 2/2 DAC 10 ASSY (AWK7773)
CN6002
CN6001
J5806
CN4003
CN5805
J5805 ADX7378
CN4004
AA LOCAL SUPPLY ASSY (AWX8278)
CN4001
CN4002
CN4005
J5801
CN5828
J4002
J4004
CN1904
D1903
AI
CN5004
J4001 ADX7407
X
CN4806
+VL -VL
POSISTER (R) ASSY (AWX7846)
AH
J1902
CN4813
Z POWER AMP (G) ASSY (AWX7886)
CN4805
+VL -VL
AG POSISTER (L) ASSY (AWX7844)
J1901 ADX7365
CN4812
CN707
CN706
CN704
CN5811
CN701
CN5810
CN702
CN5809
CN703
S S 1/6- S 6/6 DSP ASSY (AWK7774)
1394 MODULE (AXQ7251) AO AO 1/2, AO 2/2
CN401
CN705
CN5817
CN5002
CN5818
CN5001
CN5819
CN5003
CN5006
J5002 ADX7381
CN4801
CN4802
J4802
SBR
SR
FR
CN4804
J4803
(BLK)
SBL
SL
FL
J4801 (1/2)
V
CN4803
CN5005
J5001 ADX7382
CN4811
CN4810
CN4809
Y POWER AMP (BR) ASSY (AWX8320)
G VIDEO CONNECT ASSY (AWX7876)
CN3301
CN3302
CN3303
R MOTHER ASSY (AWX8280)
J5803
CN708
CN502
CN709
CN501
CN551
CN351
T DSP3 ASSY (AWK7775)
CN5816
CN3403
CN5815
CN3402
CN5814
CN3401
L L 1/3- L 3/3 ANALOG IN & A/D ASSY (AWX8273)
Q Q 1/3- Q 3/3 VR & PRE OUT ASSY (AWX8279)
CN5821
CN2002
CN5820
CN2001
B A/V I/O ASSY (AWX8271)
CN5822
CN2101
CN2102
C COMPOSITE ASSY (AWX7942)
CN5823
CN2301
CN2306
D S-VIDEO ASSY (AWX8159)
CN5824
CN2501
CN2502
F COMPONENT ASSY (AWX7953)
2002 AKM7005 ×2 short pin
PCB-PCB
PCB-PCB
PCB-PCB
PCB-PCB
PCB-PCB
PCB-PCB
FFC CONNECTOR
FFC CONNECTOR
(AD:reverse, BD:one side)
FC CONNECTOR
BOARD-IN CONNECTOR
CABLE HOLDER
CABLE CONNECTOR
WIRE-WIRE

Note: When ordering service parts, be sure to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

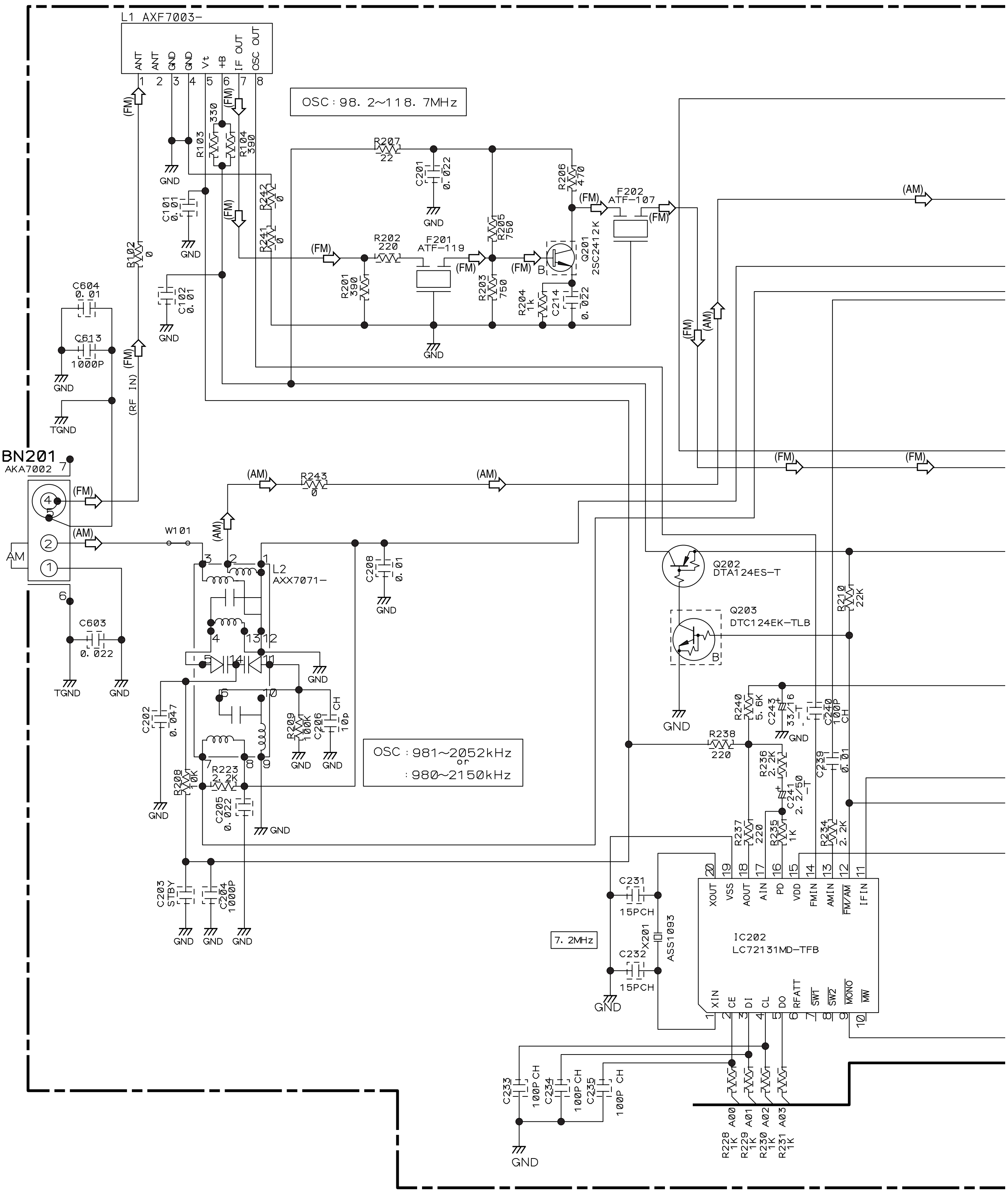
N INPUT SEL ASSY (AWX7868)
PLATE
J6002-1
DE007VC0
3104
J3004
3004
D20PYY0410E
D20PYY0405E
AE FL SUPPLY ASSY (AWX8269)
CN1902
CN1901
J3301
3001
J1801
ADX7377
CN1803
CN1802
FU4
FU5
FU6
FU7
FU8
FU4: 5A 125V VEK1024
FU5-FU8: 2A 125V VEK1019
CN1801
AL FUSE ASSY (AWX7843)
AN TRANS (B) ASSY (AWX8057)
J1601
ADX7385
FU9,FU10: 1A 125V VEK1014
CN1701
CN1702
FU9
FU10
VH
VA
FLAC
FLVF
POWER AMP (C) ASSY (AWX8319)
J16
ADX7379
⚠POWER TRANS
T1 ATS7320
PRIMARY
VL
VL
VD
VP
6003-1 AXM7028
J11 (1/2) ADX7383
J12 (1/2) ADX7384
J4804
CN1502
AK DIODE ASSY (AWX8412)
J1501 ADX7358
(RED)
C1 ACH7201 33000/63
(RED)
(RED)
J1503
J1504
TRANS (A) ASSY (AWX8338)
AM
CN1601
(GRY)
(BLK)
(BRN)
J7 ADX7366
POWER AMP (L) ASSY (AWX8276)
(GLY)
(GLY)
(BLU)
(BLU)
(BLU)
CN1501
J1502
ADX7359
C2 ACH7201 33000/63
J1208
J1207
(BLK)
(BLK)
J1102
ADX7388
POSISTER (MT)ASSY (AWX8270)
AP
AC
CN1905
CN1301
POWER SW ASSY (AWX7840)
ADX7394
J41
J1101 D20PYY0365E
6003-2 AXM7028 (except /JJ)
J1201
CN1107
ORG: LIVE
WHT: NEUTRAL
CN1106
CN1105
CN5826
CN1203
CN1204
CN5801
J23
ADD7334 (14/160 AD)
CN1104
K HEADPHONE ASSY (AWX8336)
CN1206
ADD7332 (04/450 BD)
J35
CN3203
CN1003
⚠CN1004 or 1004
AC OUTLET SWITCHED 100W MAX
CN3304
CN2852
CN5825
CN2851
E V-CONVERT ASSY (AWX8160)
AD SP (A) ASSY (AWX8330)
J1206
J1206
CN1007
AB AC PRIMARY ASSY (AWX8261)
AJ SP (B) ASSY (AWX8332)
⚠ CN1002
CN5802
J22
ADD7333 (13/240 BD)
CN2705
A FM/AM TUNER MODULE (AXQ7237)
CN1103
CN1205
CN1101
CN1001
CN1102
CN1005
⚠ FU1
FU1: 12A 125V AEK-306
AC INLET ASSY
J42
ADD7442 (4/122 BD)
CN4072
AQ
CN5832
12V TRIGGER ASSY (AWX8321)
+ − − +
+ − − +
+ − − +

: The power supply is shown with the marked box.

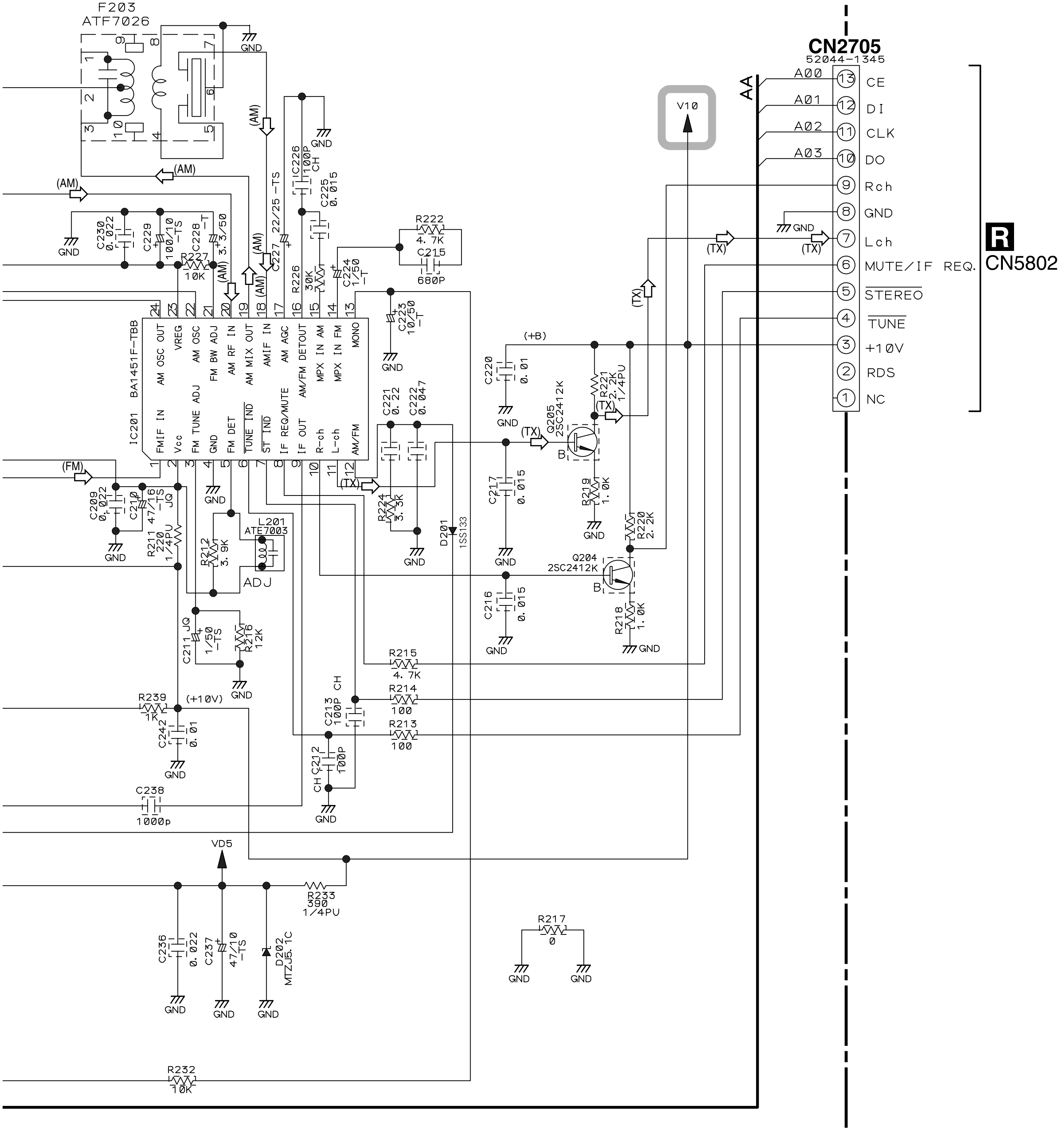
AC INLET ASSY : ADX7395

3.3 FM/AM TUNER MODULE

A FM/AM TUNER MODULE (AXQ7237)


L1 AXF7003-
ANT ANT GND GND Vt +B IF OUT OSC OUT
1 2 3 4 5 6 7 8
OSC : 98.2~118.7MHz
R103 330
R104 390
R207 22
C201 0.022
R206 470
F202 ATF-107
C101 0.01
R242 0
R241 0
R202 220
F201 ATF-119
R205 750
Q201 2SC2412K
R102 0
C604 0.01
C613 1000P
R201 390
R203 750
R204 1k
C214 0.022
C102 0.01
(RF IN)
BN201 AKA7002
R243 0
W101
AM
L2 AXX7071-
C208 0.01
Q202 DTA124ES-T
Q203 DTC124EK-TLB
R210 22K
C603 0.022
C202 0.047
R209 100K
C206 CH 10p
OSC : 981~2052kHz or : 980~2150kHz
R240 5.6K
C243 33/16
C240 100P CH
R238 220
R236 2.2K
C239 0.01
C241 2.2/50
R208 10K
R223 2.2K
C205 0.022
R237 220
R235 1K
R234 2.2K
C203 STBY
C204 1000P
C231 15PCH
C232 15PCH
X201 ASS1093
7.2MHz
IC202 LC72131MD-TFB
XOUT VSS AOUT AIN PD VDD FMIN AMIN FM/AM IFIN
20 19 18 17 16 15 14 13 12 11
XIN CE DI CL DO RFATT SW1 SW2 MONO MW
1 2 3 4 5 6 7 8 9 10
C233 100P CH
C234 100P CH
C235 100P CH
R228 1K A00
R229 1K A01
R230 1K A02
R231 1K A03
(FM)
(AM)
GND
TGND

(TX) : AUDIO SIGNAL ROUTE (TUNER)
(AM) : AM SIGNAL ROUTE
(FM) : FM SIGNAL ROUTE

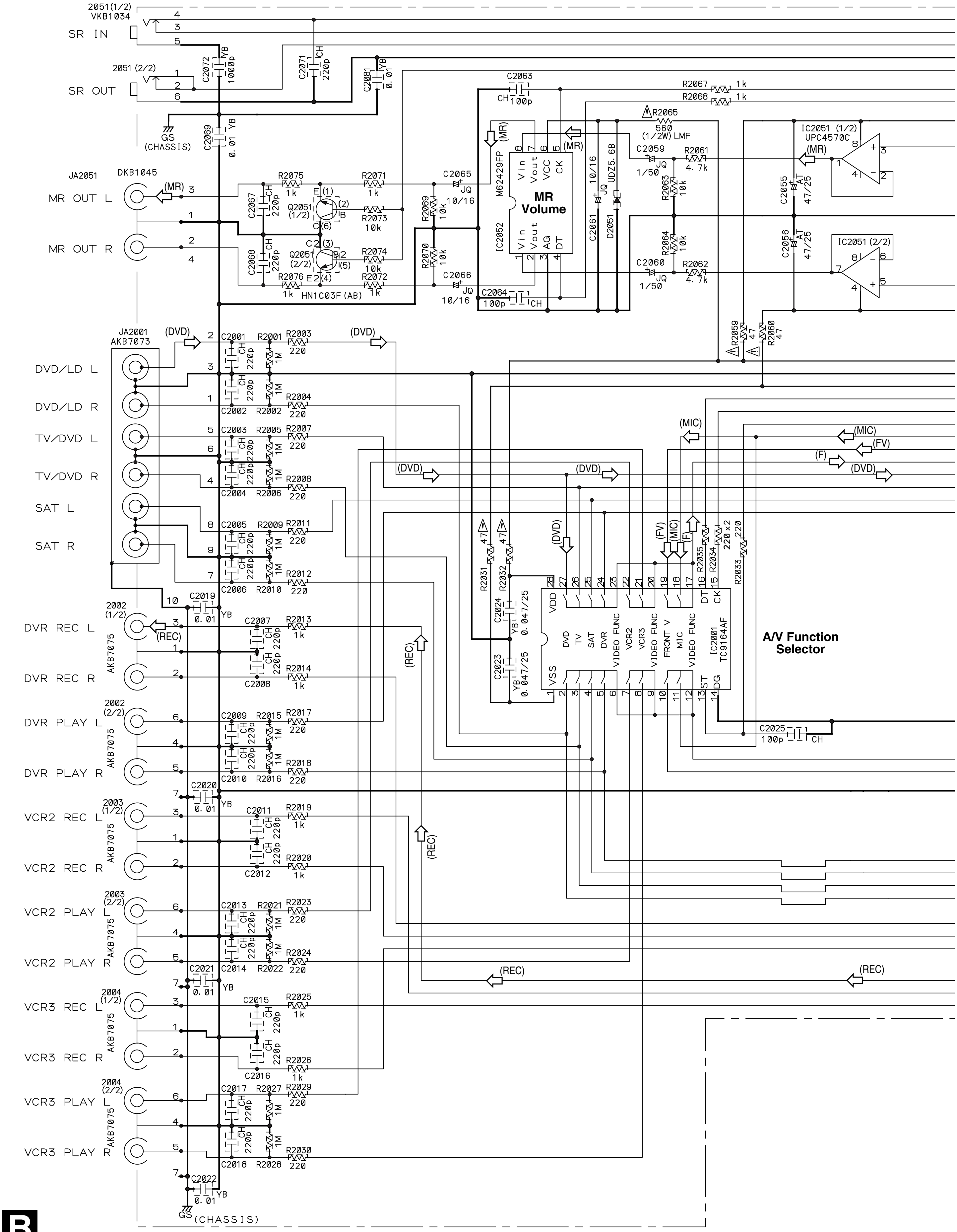

F203
ATF7026
GND
(AM)
C226 100P CH
C225 0.015
C230 0.022
C229 100/10 -TS
C228 3.3/50 -T
C227 22/25 -TS
R227 10K
R226 30K
C224 1/50 -T
R222 4.7K
C215 680P
C223 10/50 -T
IC201 BA1451F-TBB
24 AM OSC OUT
23 VREG
22 AM OSC
21 FM BW ADJ
20 AM RF IN
19 AM MIX OUT
18 AMIF IN
17 AM AGC
16 AM/FM DETOUT
15 MPX IN AM
14 MPX IN FM
13 MONO
1 FMIF IN
2 Vcc
3 FM TUNE ADJ
4 GND
5 FM DET
6 TUNE IND
7 ST IND
8 IF REQ/MUTE
9 IF OUT
10 R-ch
11 L-ch
12 AM/FM
(FM)
C209 0.022
C210 47/16 -TS JQ
R211 220 1/4PU
R212 3.9K
L201 ATE7003
ADJ
C211 JQ 1/50 -TS
R216 12K
C221 0.22
C222 0.047
R224 3.3K
D201 1SS133
(TX)
(+B)
C220 0.01
C217 0.015
C216 0.015
Q205 2SC2412K
Q204 2SC2412K
B
R221 2.2K 1/4PU
R219 1.0K
R220 2.2K
R218 1.0K
R215 4.7K
R214 100
R213 100
C213 100P CH
C212 100P CH
R239 1K
(+10V)
C242 0.01
C238 1000p
VD5
R233 390 1/4PU
C236 0.022
C237 47/10 -TS
D202 MTZJ5.1C
R217 0
R232 10K
V10
AA
CN2705
52044-1345
A00 13 CE
A01 12 DI
A02 11 CLK
A03 10 DO
9 Rch
8 GND
7 Lch
6 MUTE/IF REQ.
5 STEREO
4 TUNE
3 +10V
2 RDS
1 NC
R
CN5802

Notes

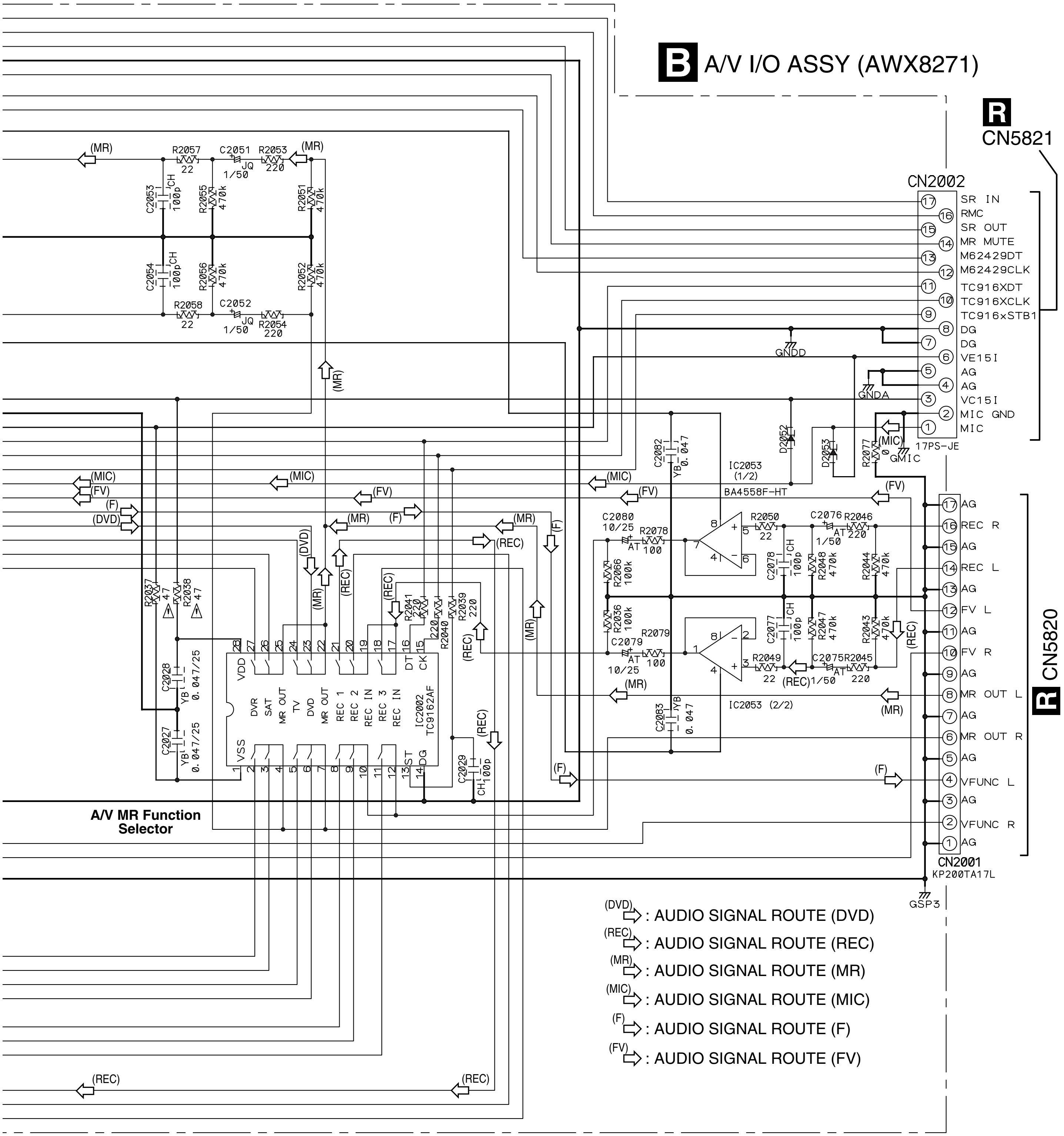
1. RESISTORS
   Indicated in Ω, 1/16W±5% Tolerance unless otherwise noted K;kΩ, M;MΩ.
2. CAPACITORS
   Indicated in Capacity(μF)/VOLTAGE(V) unless otherwise noted P;pF.
3. DIODES
   No mark diode is 1SS133.

A

3.4 A/V I/O ASSY


A
B
C
D
E
F
2051(1/2)
VKB1034
SR IN
2051 (2/2)
SR OUT
GS
(CHASSIS)
JA2051
DKB1045
MR OUT L
MR OUT R
(MR)
Q2051
HN1C03F (AB)
IC2052
M62429FP
MR
Volume
D2051
UDZ5.6B
R2065
560
(1/2W) LMF
IC2051 (1/2)
UPC4570C
IC2051 (2/2)
JA2001
AKB7073
DVD/LD L
DVD/LD R
TV/DVD L
TV/DVD R
SAT L
SAT R
(DVD)
(MIC)
(FV)
(F)
(REC)
2002 (1/2)
AKB7075
DVR REC L
DVR REC R
2002 (2/2)
DVR PLAY L
DVR PLAY R
2003 (1/2)
VCR2 REC L
VCR2 REC R
2003 (2/2)
VCR2 PLAY L
VCR2 PLAY R
2004 (1/2)
VCR3 REC L
VCR3 REC R
2004 (2/2)
VCR3 PLAY L
VCR3 PLAY R
IC2001
TC9164AF
A/V Function
Selector
VDD
VSS
DVD
TV
SAT
DVR
VIDEO FUNC
VCR2
VCR3
FRONT V
MIC
DT
CK
ST
DG
C2025
100p
GS (CHASSIS)

B A/V I/O ASSY (AWX8271)


R
CN5821
CN2002
17 SR IN
16 RMC
15 SR OUT
14 MR MUTE
13 M62429DT
12 M62429CLK
11 TC916XDT
10 TC916XCLK
9 TC916xSTB1
8 DG
7 DG
6 VE15I
5 AG
4 AG
3 VC15I
2 MIC GND
1 MIC
17PS-JE
GNDD
GNDA
GMIC
(MR)
R2057 22
C2051 JQ 1/50
R2053 220
C2053 CH 100p
R2055 470k
R2051 470k
C2054 CH 100p
R2056 470k
R2052 470k
R2058 22
C2052 JQ 1/50
R2054 220
(MIC)
(FV)
(F)
(DVD)
(REC)
R2037 47
R2038 47
C2028 YB 0.047/25
C2027 YB 0.047/25
VDD
VSS
DVR
SAT
MR OUT
TV
DVD
MR OUT
REC 1
REC 2
REC IN
REC 3
REC IN
IC2002
TC9162AF
DT
CK
ST
DG
R2041 220
R2040 220
R2039 220
C2029 CH 100p
A/V MR Function
Selector
C2082 YB 0.047
IC2053 (1/2)
BA4558F-HT
D2052
D2053
R2077 0
C2080 10/25 AT
R2078 100
R2066 100k
R2036 100k
C2079 10/25 AT
R2079 100
R2050 22
C2076 AT 1/50
R2046 220
C2078 CH 100p
R2048 470k
R2044 470k
C2077 CH 100p
R2047 470k
R2043 470k
R2049 22
C2075 AT 1/50
R2045 220
C2083 YB 0.047
IC2053 (2/2)
17 AG
16 REC R
15 AG
14 REC L
13 AG
12 FV L
11 AG
10 FV R
9 AG
8 MR OUT L
7 AG
6 MR OUT R
5 AG
4 VFUNC L
3 AG
2 VFUNC R
1 AG
CN2001
KP200TA17L
GSP3
R
CN5820

(DVD) ⇨ : AUDIO SIGNAL ROUTE (DVD)

(REC) ⇨ : AUDIO SIGNAL ROUTE (REC)

(MR) ⇨ : AUDIO SIGNAL ROUTE (MR)

(MIC) ⇨ : AUDIO SIGNAL ROUTE (MIC)

(F) ⇨ : AUDIO SIGNAL ROUTE (F)

(FV) ⇨ : AUDIO SIGNAL ROUTE (FV)

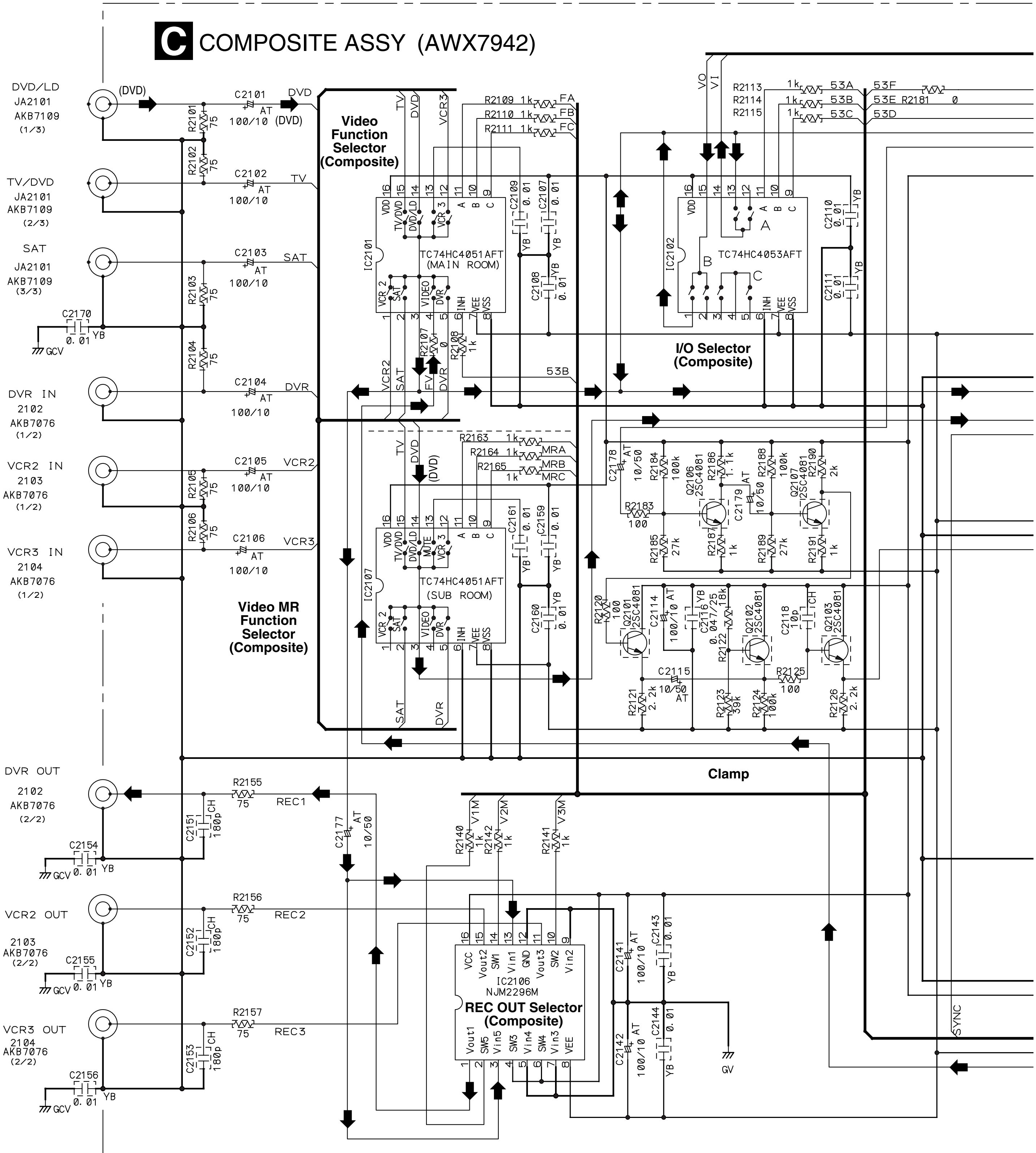
NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or µF unless otherwise noted.
   Rated Voltage: shown as "Capacity(µF)/Voltage(V)",
   or 50V unless otherwise noted.
   AT:CEAT, JQ:CEJQ
3. DIODES
   No marked Diodes are 1SS355.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

B

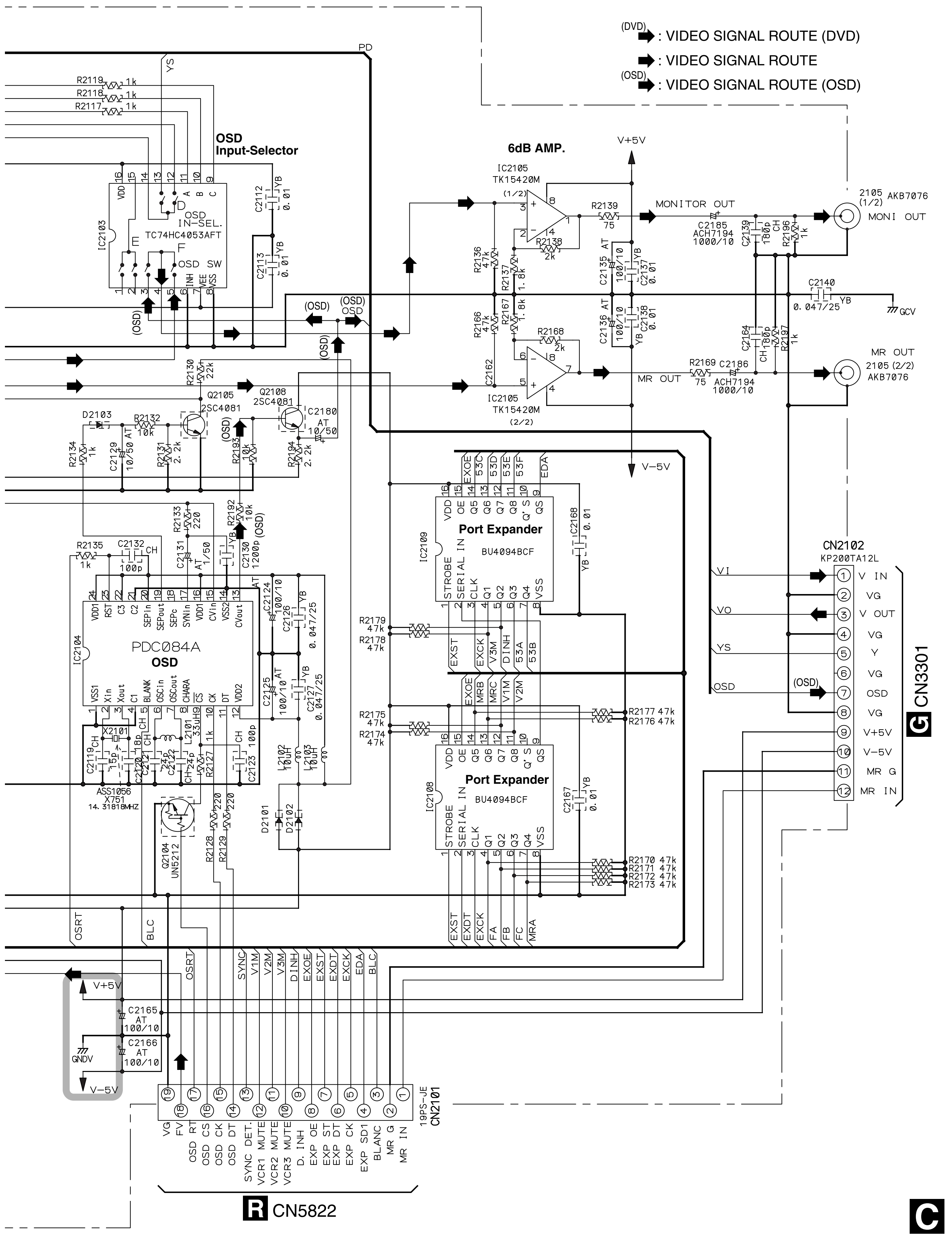
3.5 COMPOSITE ASSY


C COMPOSITE ASSY (AWX7942)
DVD/LD JA2101 AKB7109 (1/3)
(DVD)
TV/DVD JA2101 AKB7109 (2/3)
SAT JA2101 AKB7109 (3/3)
DVR IN 2102 AKB7076 (1/2)
VCR2 IN 2103 AKB7076 (1/2)
VCR3 IN 2104 AKB7076 (1/2)
DVR OUT 2102 AKB7076 (2/2)
VCR2 OUT 2103 AKB7076 (2/2)
VCR3 OUT 2104 AKB7076 (2/2)
C2170 0.01 YB
C2154 0.01 YB
C2155 0.01 YB
C2156 0.01 YB
GCV
R2101 75
R2102 75
R2103 75
R2104 75
R2105 75
R2106 75
C2101 AT 100/10 DVD (DVD)
C2102 AT 100/10 TV
C2103 AT 100/10 SAT
C2104 AT 100/10 DVR
C2105 AT 100/10 VCR2
C2106 AT 100/10 VCR3
Video Function Selector (Composite)
IC2101 TC74HC4051AFT (MAIN ROOM)
R2109 1k FA
R2110 1k FB
R2111 1k FC
C2109 0.01 YB
C2107 0.01 YB
C2108 0.01 YB
R2107 0
R2108 1k
FV
53B
Video MR Function Selector (Composite)
IC2107 TC74HC4051AFT (SUB ROOM)
R2163 1k MRA
R2164 1k MRB
R2165 1k MRC
C2161 0.01 YB
C2159 0.01 YB
C2160 0.01 YB
VO VI
R2113 1k 53A
R2114 1k 53B
R2115 1k 53C
53F
53E R2181 0
53D
IC2102 TC74HC4053AFT
C2110 0.01 YB
C2111 0.01 YB
I/O Selector (Composite)
C2178 AT 10/50
R2184 100k
Q2106 2SC4081
R2186 1.1k
C2179 AT 10/50
R2188 100k
Q2107 2SC4081
R2190 2k
R2183 100
R2185 27k
R2187 1k
R2189 27k
R2191 1k
R2120 100
Q2101 2SC4081
C2114 AT 100/10
C2116 YB 0.047/25
R2122 18k
Q2102 2SC4081
C2118 10p CH
Q2103 2SC4081
C2115 10/50 AT
R2125 100
R2121 2.2k
R2123 39k
R2124 100k
R2126 2.2k
Clamp
R2155 75 REC1
R2156 75 REC2
R2157 75 REC3
C2151 CH 180p
C2152 CH 180p
C2153 CH 180p
C2177 AT 10/50
R2140 1k V1M
R2142 1k V2M
R2141 1k V3M
IC2106 NJM2296M
REC OUT Selector (Composite)
VCC Vout2 SW1 Vin1 GND Vout3 SW2 Vin2
Vout1 SW5 Vin5 SW3 Vin4 SW4 Vin3 VEE
C2141 AT 100/10
C2143 0.01 YB
C2142 AT 100/10
C2144 0.01 YB
GV
SYNC

NOTES

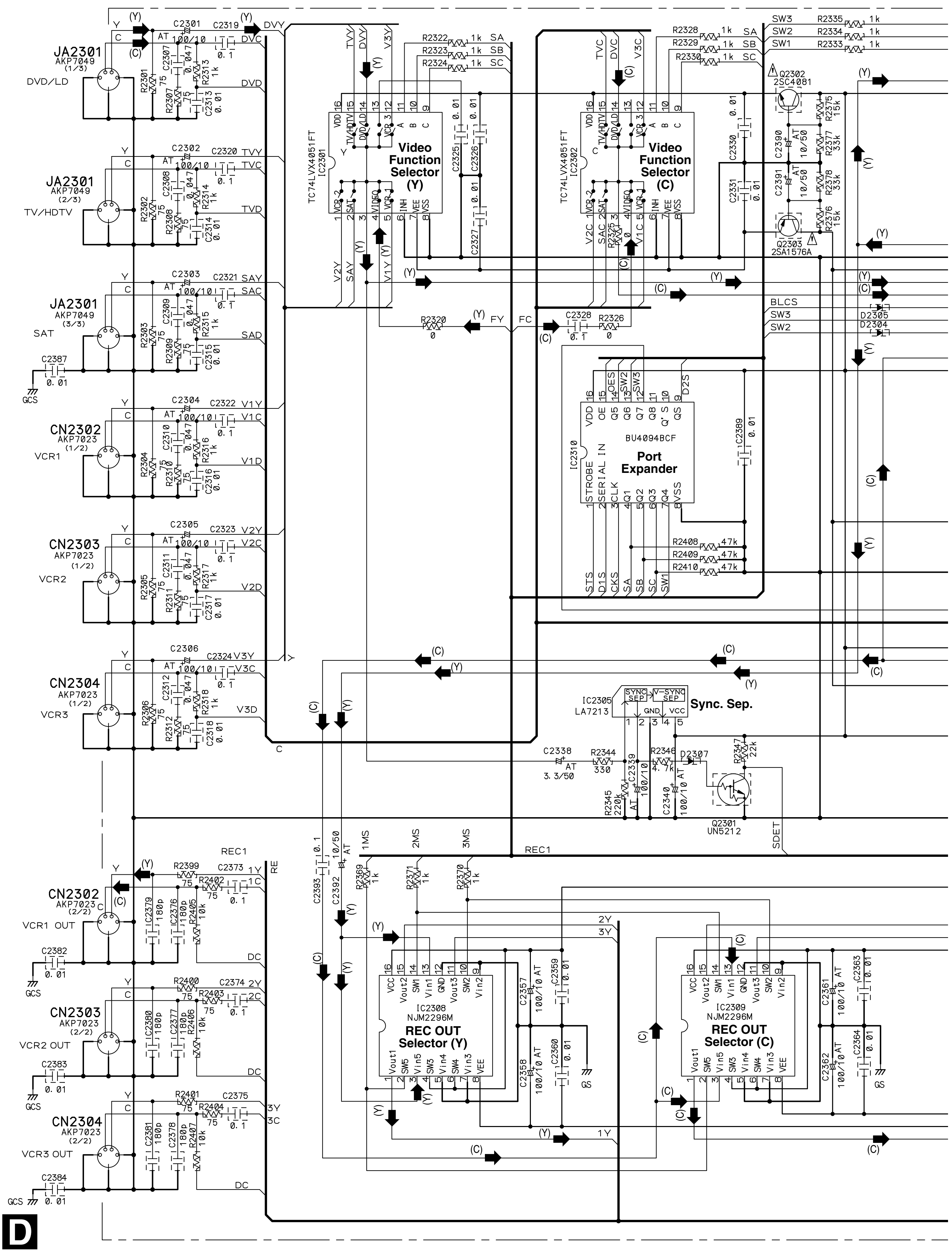
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)",
   or 50V unless otherwise noted.
   AT : CEAT
3. DIODES
   No marked Diodes are 1SS355.

C



(DVD) : VIDEO SIGNAL ROUTE (DVD)
: VIDEO SIGNAL ROUTE
(OSD) : VIDEO SIGNAL ROUTE (OSD)
A
B
C
D
E
F
PD
YS
R2119 1k
R2118 1k
R2117 1k
OSD Input-Selector
IC2103
TC74HC4053AFT
OSD IN-SEL.
OSD SW
VDD
INH
VEE
VSS
C2112 0.01 YB
C2113 0.01 YB
(OSD)
6dB AMP.
V+5V
V−5V
IC2105 TK15420M (1/2)
IC2105 TK15420M (2/2)
R2139 75
MONITOR OUT
C2185 ACH7194 1000/10
C2139 180p CH
R2196 1k
2105 (1/2) AKB7076
MONI OUT
R2136 47k
R2137 1.8k
R2138 2k
C2135 AT 100/10
C2137 0.01 YB
C2140 0.047/25 YB
GCV
R2166 47k
R2167 1.8k
R2168 2k
C2136 AT 100/10
C2138 0.01 YB
C2164 180p CH
R2197 1k
C2162
R2169 75
C2186 ACH7194 1000/10
MR OUT
2105 (2/2) AKB7076
R2130 22k
Q2105 2SC4081
Q2108 2SC4081
C2180 AT 10/50
D2103
R2132 10k
R2134 1k
C2129 AT 10/50
R2131 2.2k
R2193 10k
R2194 2.2k
R2133 220
R2192 10k
C2130 1200p
R2135 1k
C2132 CH 100p
C2131 AT 1/50
IC2104
PDC084A
OSD
VDD1 RST C3 C2 SEPin SEPout SEPc SYNin VDD1 CVin VSS2 CVout
VSS1 Xin Xout C1 BLANK OSCin OSCout CHARA CS CK DT VDD2
C2124 AT 100/10
C2126 YB 0.047/25
C2125 AT 100/10
C2127 YB 0.047/25
X2101
C2119 CH 15p
C2120 CH 18p
C2121 CH 24p
C2122 CH 24p
L2101 33uH
R2127 1k
C2123 CH 100p
ASS1056 X751 14.31818MHZ
L2102 10uH
L2103 10uH
D2101
D2102
Q2104 UN5212
R2128 220
R2129 220
IC2109
Port Expander
BU4094BCF
VDD OE Q5 Q6 Q7 Q8 Q'S QS
STROBE SERIAL IN CLK Q1 Q2 Q3 Q4 VSS
EXOE 53C 53D 53E 53F EDA
C2168 0.01 YB
R2179 47k
R2178 47k
EXST EXCK V3M DINH 53A 53B
EXOE MRB MRC V1M V2M
R2175 47k
R2174 47k
R2177 47k
R2176 47k
IC2108
Port Expander
BU4094BCF
C2167 0.01 YB
R2170 47k
R2171 47k
R2172 47k
R2173 47k
EXST EXDT EXCK FA FB FC MRA
CN2102
KP200TA12L
VI VO YS OSD
① V IN
② VG
③ V OUT
④ VG
⑤ Y
⑥ VG
⑦ OSD
⑧ VG
⑨ V+5V
⑩ V−5V
⑪ MR G
⑫ MR IN
G CN3301
OSRT
BLC
OSRT SYNC V1M V2M V3M DINH EXOE EXST EXDT EXCK EDA BLC
V+5V
C2165 AT 100/10
GNDV
C2166 AT 100/10
V−5V
19PS-JE
CN2101
⑲ VG
⑱ FV
⑰ OSD RT
⑯ OSD CS
⑮ OSD CK
⑭ OSD DT
⑬ SYNC DET.
⑫ VCR1 MUTE
⑪ VCR2 MUTE
⑩ VCR3 MUTE
⑨ D. INH
⑧ EXP OE
⑦ EXP ST
⑥ EXP DT
⑤ EXP CK
④ EXP SD1
③ BLANC
② MR G
① MR IN
R CN5822

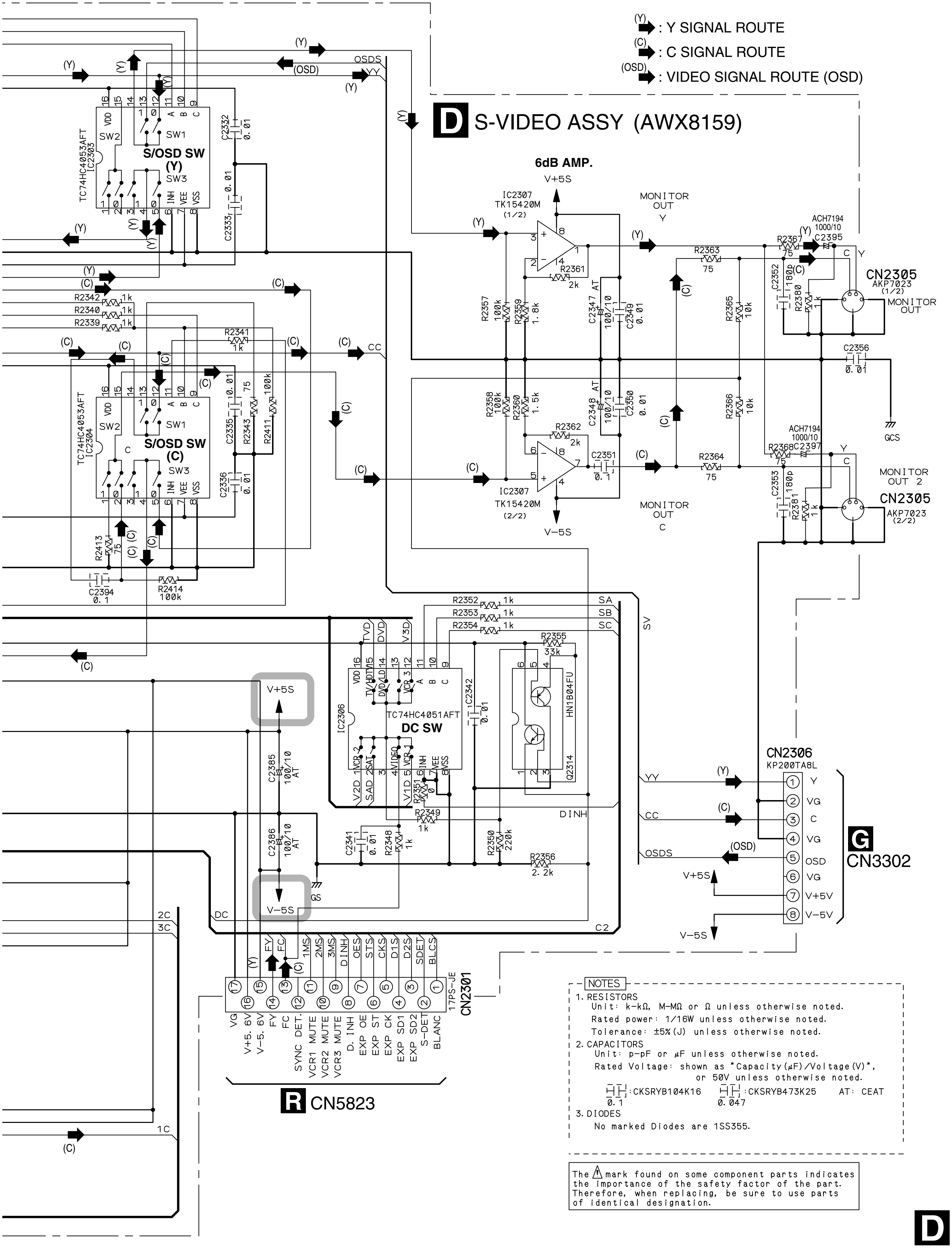
3.6 S-VIDEO ASSY


JA2301
AKP7049
(1/3)
DVD/LD
JA2301
AKP7049
(2/3)
TV/HDTV
JA2301
AKP7049
(3/3)
SAT
CN2302
AKP7023
(1/2)
VCR1
CN2303
AKP7023
(1/2)
VCR2
CN2304
AKP7023
(1/2)
VCR3
CN2302
AKP7023
(2/2)
VCR1 OUT
CN2303
AKP7023
(2/2)
VCR2 OUT
CN2304
AKP7023
(2/2)
VCR3 OUT
GCS
GS
TC74LVX4051FT
IC2301
Video Function Selector (Y)
TC74LVX4051FT
IC2302
Video Function Selector (C)
IC2310
BU4094BCF
Port Expander
IC2305
LA7213
Sync. Sep.
SYNC SEP
V-SYNC SEP
IC2308
NJM2296M
REC OUT Selector (Y)
IC2309
NJM2296M
REC OUT Selector (C)
Q2302
2SC4081
Q2303
2SA1576A
Q2301
UN5212
D2305
D2304
D2307
DVY
DVC
DVD
TVY
TVC
TVD
SAY
SAC
SAD
V1Y
V1C
V1D
V2Y
V2C
V2D
V3Y
V3C
V3D
FY
FC
REC1
SDET
BLCS
SW1
SW2
SW3
SA
SB
SC
STS
D1S
CKS
D2S
OES
1MS
2MS
3MS
1Y
1C
2Y
2C
3Y
3C
DC
(Y)
(C)

D

D S-VIDEO ASSY (AWX8159)

(Y) : Y SIGNAL ROUTE
(C) : C SIGNAL ROUTE
(OSD) : VIDEO SIGNAL ROUTE (OSD)

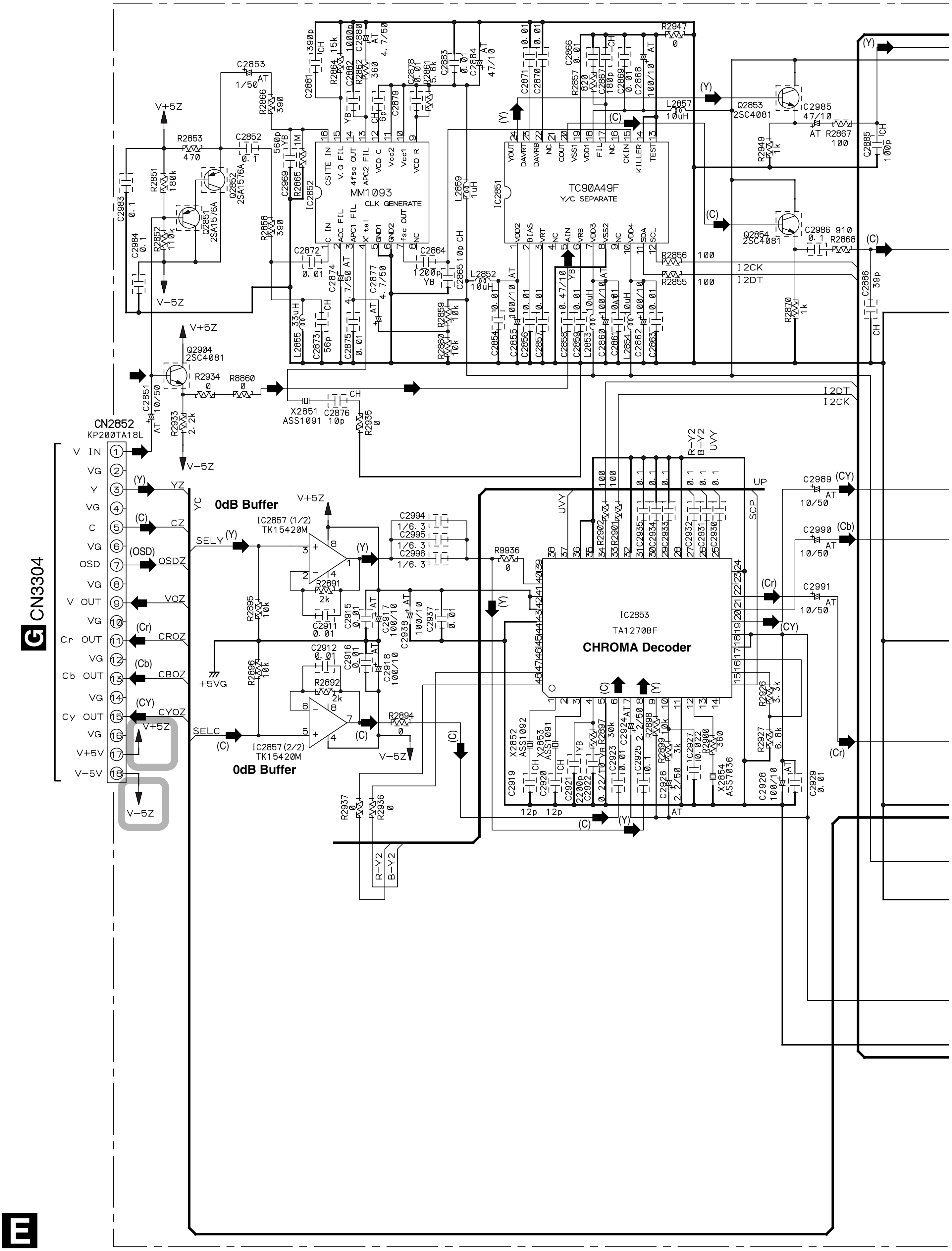


S/OSD SW (Y)
IC2303 TC74HC4053AFT
SW1
SW2
SW3
VDD
INH
VEE
VSS
C2332 0.01
C2333 0.01
OSDS
YY
S/OSD SW (C)
IC2304 TC74HC4053AFT
R2342 1k
R2340 1k
R2339 1k
R2341 1k
C2335 0.01
R2343 75
R2411 100k
C2336 0.01
R2413 75
C2394 0.1
R2414 100k
CC
6dB AMP.
V+5S
IC2307 TK15420M (1/2)
IC2307 TK15420M (2/2)
V−5S
R2357 100k
R2359 1.8k
R2361 2k
C2347 100/10 AT
C2349 0.01
R2358 100k
R2360 1.5k
R2362 2k
C2348 100/10 AT
C2350 0.01
C2351 0.1
MONITOR OUT Y
MONITOR OUT C
R2363 75
R2364 75
R2365 10k
R2366 10k
ACH7194 1000/10
R2367 75
C2395
C2352 180p
R2380 1k
CN2305 AKP7023 (1/2)
MONITOR OUT
C2356 0.01
GCS
ACH7194 1000/10
R2368 75
C2397
C2353 180p
R2381 1k
MONITOR OUT 2
CN2305 AKP7023 (2/2)
R2352 1k
R2353 1k
R2354 1k
SA
SB
SC
SV
R2355 33k
IC2306 TC74HC4051AFT
DC SW
TVD
DVD
V3D
V2D
SAD
V1D
C2342 0.01
Q2314 HN1B04FU
R2351 0
R2349 1k
DINH
C2341 0.01
R2348 1k
R2350 220k
R2356 2.2k
C2385 100/10 AT
C2386 100/10 AT
V+5S
V−5S
GS
DC
2C
3C
C2
1C
CN2306 KP200TA8L
1 Y
2 VG
3 C
4 VG
5 OSD
6 VG
7 V+5V
8 V−5V
YY
CC
OSDS
G CN3302
CN2301 17PS-JE
FY
FC
1MS
2MS
3MS
DINH
OES
STS
CKS
D1S
D2S
SDET
BLCS
17 VG
16 V+5.6V
15 V−5.6V
14 FY
13 FC
12 SYNC DET.
11 VCR1 MUTE
10 VCR2 MUTE
9 VCR3 MUTE
8 D.INH
7 EXP OE
6 EXP ST
5 EXP CK
4 EXP SD1
3 EXP SD2
2 S-DET
1 BLANC
R CN5823

NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
0.1 :CKSRYB104K16 0.047 :CKSRYB473K25 AT: CEAT
3. DIODES
No marked Diodes are 1SS355.

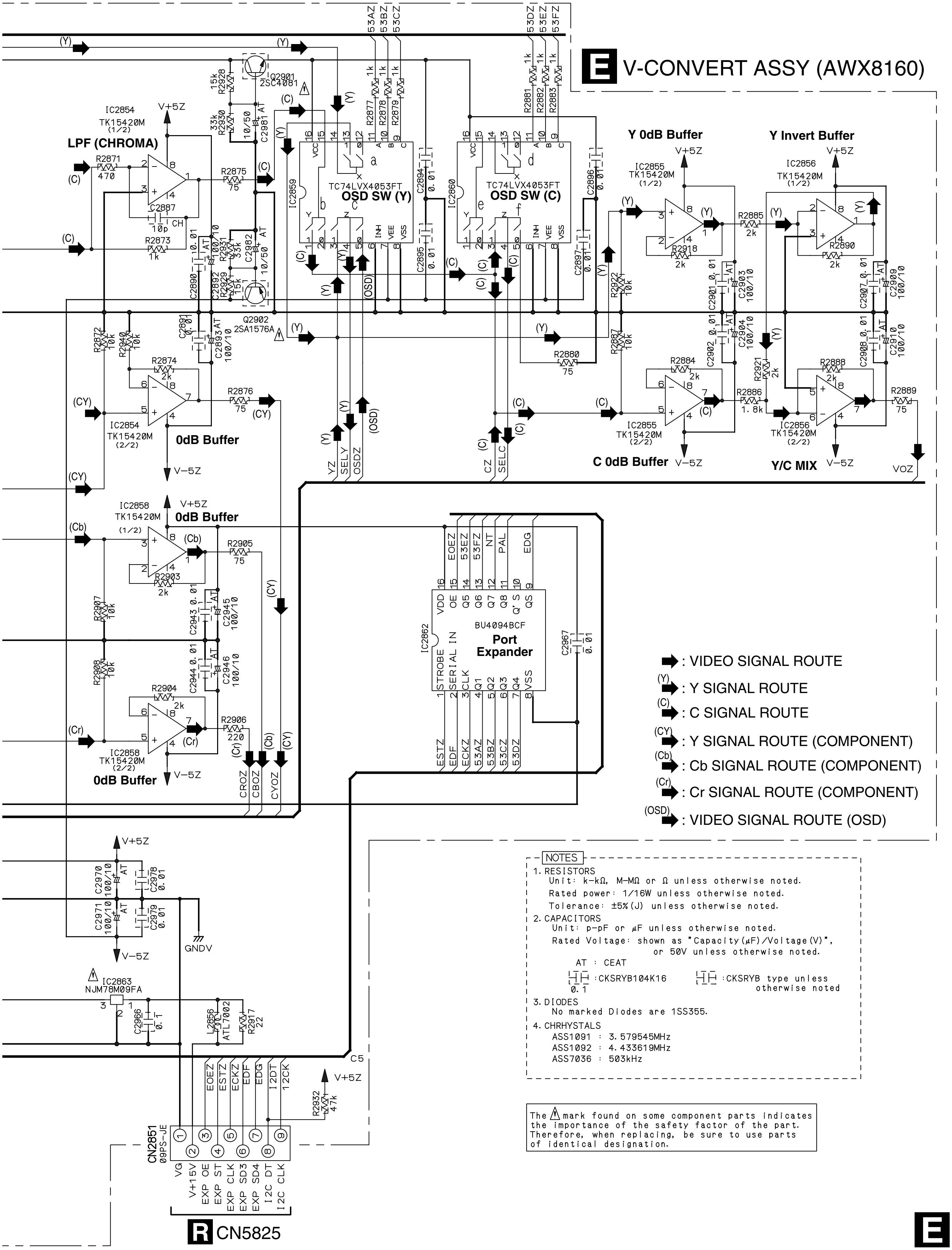
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

3.7 V-CONVERT ASSY



IC2852
MM1093
CLK GENERATE
IC2851
TC90A49F
Y/C SEPARATE
IC2853
TA1270BF
CHROMA Decoder
IC2857 (1/2)
TK15420M
IC2857 (2/2)
TK15420M
0dB Buffer
0dB Buffer
CN2852
KP200TA18L
CN3304
G
V IN
VG
Y
VG
C
VG
OSD
VG
V OUT
VG
Cr OUT
VG
Cb OUT
VG
Cy OUT
VG
V+5V
V-5V
Q2851
2SA1576A
Q2852
2SA1576A
Q2904
2SC4081
Q2853
2SC4081
Q2854
2SC4081
X2851
ASS1091
X2852
ASS1092
X2853
ASS1091
X2854
ASS7036
V+5Z
V-5Z
+5VG
SELY
SELC
I2DT
I2CK
UP
SCP
UVY
R-Y2
B-Y2
(Y)
(C)
(Cr)
(Cb)
(CY)
(OSD)

E V-CONVERT ASSY (AWX8160)



53AZ
53BZ
53CZ
53DZ
53EZ
53FZ
IC2854
TK15420M
(1/2)
LPF (CHROMA)
V+5Z
R2871
470
R2875
75
C2887
10p
CH
R2873
1k
R2928
15k
R2930
33k
C2981
10/50
Q2901
2SC4081
C2982
10/50
R2931
33k
R2929
15k
Q2902
2SA1576A
C2890
0.01
C2892
100/10
C2891
0.01
C2893
100/10
R2872
10k
R2940
10k
R2874
2k
R2876
75
IC2854
TK15420M
(2/2)
0dB Buffer
V−5Z
R2877
R2878
R2879
1k
IC2859
TC74LVX4053FT
OSD SW (Y)
C2894
0.01
C2895
0.01
IC2860
TC74LVX4053FT
OSD SW (C)
C2896
0.01
C2897
0.01
R2881
R2882
R2883
1k
R2880
75
YZ
SELY
OSDZ
CZ
SELC
Y 0dB Buffer
IC2855
TK15420M
(1/2)
R2885
2k
R2918
2k
Y Invert Buffer
IC2856
TK15420M
(1/2)
R2890
2k
R2922
10k
R2887
10k
C2901
0.01
C2903
100/10
C2902
0.01
C2904
100/10
C2907
0.01
C2909
100/10
C2908
0.01
C2910
100/10
R2884
2k
R2921
2k
R2886
1.8k
R2888
2k
R2889
75
IC2855
TK15420M
(2/2)
C 0dB Buffer
IC2856
TK15420M
(2/2)
Y/C MIX
VOZ
IC2858
TK15420M
(1/2)
0dB Buffer
R2905
75
R2903
2k
R2907
10k
C2943
0.01
C2945
100/10
R2908
10k
C2944
0.01
C2946
100/10
R2904
2k
R2906
220
IC2858
TK15420M
(2/2)
0dB Buffer
CROZ
CBOZ
CYOZ
EOEZ
53EZ
53FZ
NT
PAL
EDG
VDD OE Q5 Q6 Q7 Q8 Q'S QS
IC2862
BU4094BCF
Port
Expander
STROBE SERIAL IN CLK Q1 Q2 Q3 Q4 VSS
C2967
0.01
ESTZ
EDF
ECKZ
53AZ
53BZ
53CZ
53DZ
C2970
100/10
C2978
0.01
C2971
100/10
C2979
0.01
GNDV
IC2863
NJM78M09FA
C2966
0.1
L2856
ATL7002
R2917
22
C5
R2932
47k
EOEZ
ESTZ
ECKZ
EDF
EDG
I2DT
I2CK
CN2851
09PS-JE
VG
V+15V
EXP OE
EXP ST
EXP CLK
EXP SD3
EXP SD4
I2C DT
I2C CLK
R CN5825

➡ : VIDEO SIGNAL ROUTE

(Y)➡ : Y SIGNAL ROUTE

(C)➡ : C SIGNAL ROUTE

(CY)➡ : Y SIGNAL ROUTE (COMPONENT)

(Cb)➡ : Cb SIGNAL ROUTE (COMPONENT)

(Cr)➡ : Cr SIGNAL ROUTE (COMPONENT)

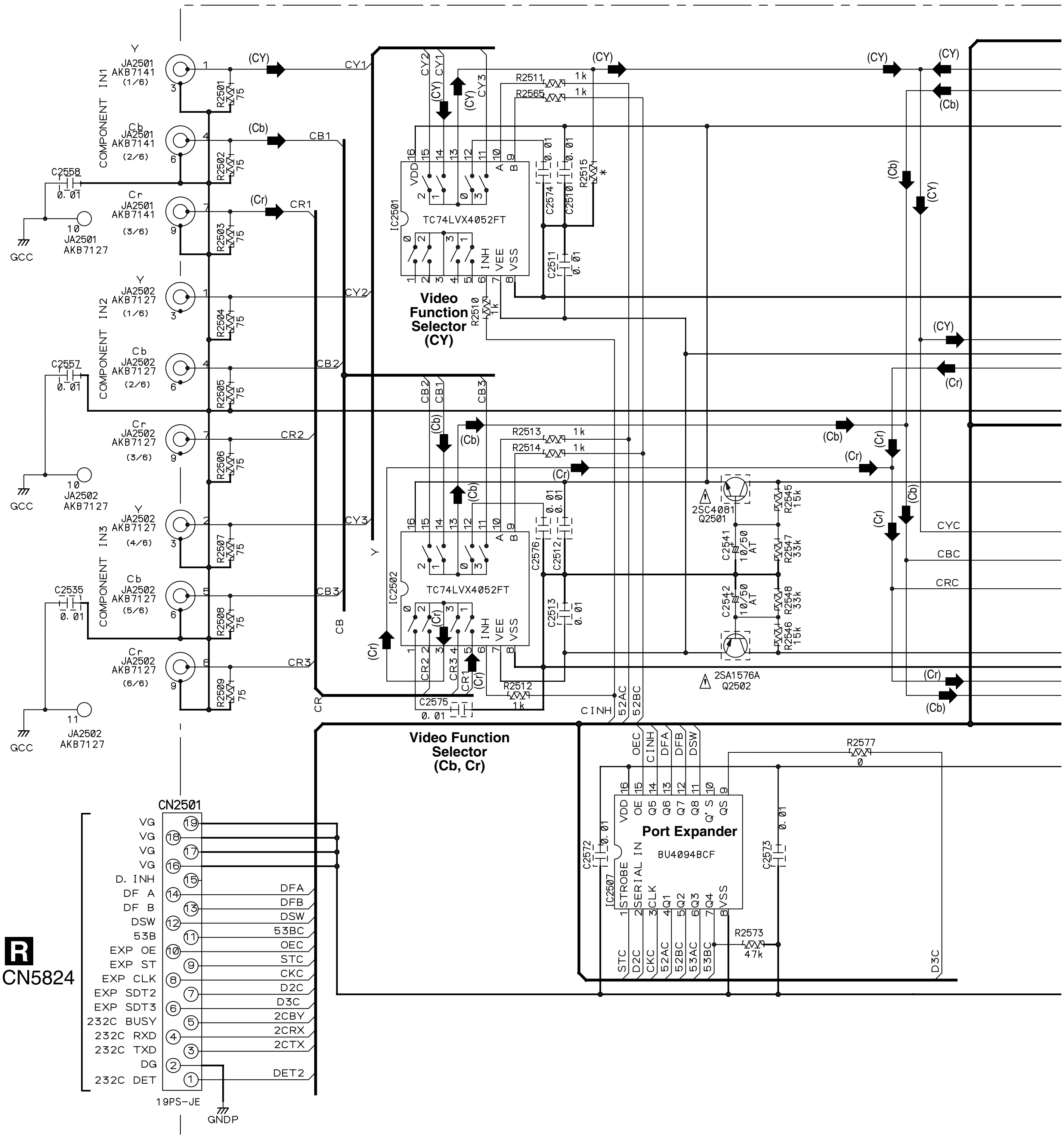
(OSD)➡ : VIDEO SIGNAL ROUTE (OSD)

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)",
   or 50V unless otherwise noted.
   AT : CEAT
   0.1 :CKSRYB104K16 :CKSRYB type unless otherwise noted
3. DIODES
   No marked Diodes are 1SS355.
4. CHRHYSTALS
   ASS1091 : 3.579545MHz
   ASS1092 : 4.433619MHz
   ASS7036 : 503kHz

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

3.8 COMPONENT ASSY


A
B
C
D
E
COMPONENT IN1
COMPONENT IN2
COMPONENT IN3
Y
JA2501
AKB7141
(1/6)
Cb
JA2501
AKB7141
(2/6)
Cr
JA2501
AKB7141
(3/6)
10
JA2501
AKB7127
Y
JA2502
AKB7127
(1/6)
Cb
JA2502
AKB7127
(2/6)
Cr
JA2502
AKB7127
(3/6)
10
JA2502
AKB7127
Y
JA2502
AKB7127
(4/6)
Cb
JA2502
AKB7127
(5/6)
Cr
JA2502
AKB7127
(6/6)
11
JA2502
AKB7127
GCC
C2558
0.01
C2557
0.01
C2535
0.01
R2501 75
R2502 75
R2503 75
R2504 75
R2505 75
R2506 75
R2507 75
R2508 75
R2509 75
(CY)
(Cb)
(Cr)
CY1
CB1
CR1
CY2
CB2
CR2
CY3
CB3
CR3
Y
CB
CR
IC2501
TC74LVX4052FT
VDD
INH
VEE
VSS
A
B
Video Function Selector (CY)
R2511 1k
R2565 1k
R2515 *
C2574 0.01
C2510 0.01
C2511 0.01
R2510 1k
IC2502
TC74LVX4052FT
Video Function Selector (Cb, Cr)
R2513 1k
R2514 1k
C2576 0.01
C2512 0.01
C2513 0.01
R2512 1k
C2575 0.01
CINH
52AC
52BC
2SC4081
Q2501
2SA1576A
Q2502
R2545 15k
R2547 33k
R2548 33k
R2546 15k
C2541 10/50 AT
C2542 10/50 AT
CYC
CBC
CRC
OEC
CINH
DFA
DFB
DSW
R2577 0
IC2507
Port Expander
BU4094BCF
VDD
OE
Q5
Q6
Q7
Q8
Q'S
QS
STROBE
SERIAL IN
CLK
Q1
Q2
Q3
Q4
VSS
C2572 0.01
C2573 0.01
R2573 47k
STC
D2C
CKC
52AC
52BC
53AC
53BC
D3C
CN2501
VG
VG
VG
VG
D. INH
DF A
DF B
DSW
53B
EXP OE
EXP ST
EXP CLK
EXP SDT2
EXP SDT3
232C BUSY
232C RXD
232C TXD
DG
232C DET
DFA
DFB
DSW
53BC
OEC
STC
CKC
D2C
D3C
2CBY
2CRX
2CTX
DET2
19PS-JE
GNDP
R
CN5824

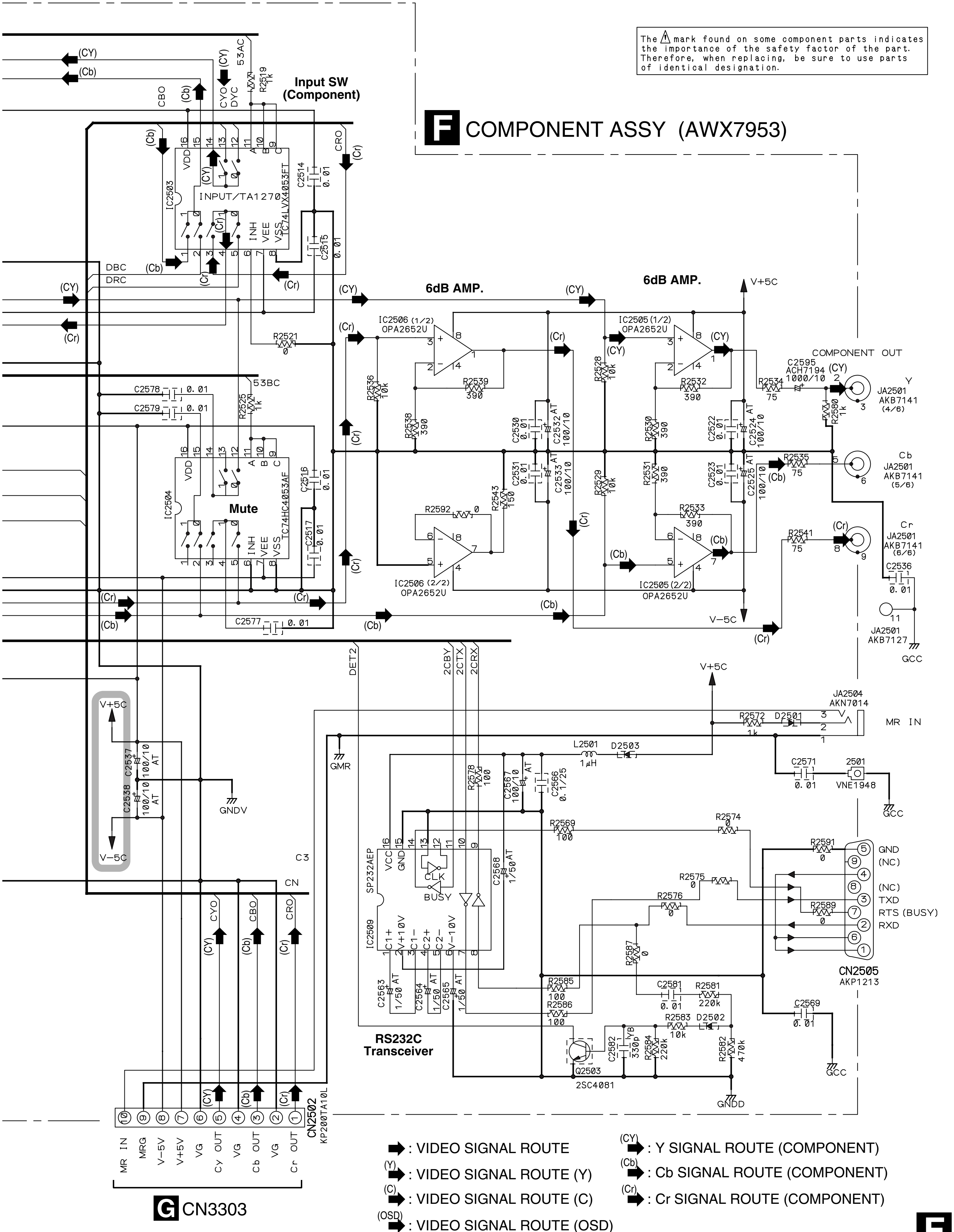
NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   AT : CEAT
   ⊣⊢ :CKSRYB type unless otherwise noted
3. DIODES
   No marked Diodes are 1SS355.

F

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

F COMPONENT ASSY (AWX7953)


Input SW (Component)
IC2503
INPUT/TA1270
TC74LVX4053FT
VDD
INH
VEE
VSS
CBO
CYO
DYC
53AC
R2519 1k
C2514 0.01
C2515 0.01
CRO
DBC
DRC
(CY)
(Cb)
(Cr)
R2521 0
53BC
R2525 1k
C2578 0.01
C2579 0.01
IC2504
Mute
TC74HC4053AF
C2516 0.01
C2517 0.01
C2577 0.01
6dB AMP.
IC2506 (1/2) OPA2652U
R2536 10k
R2538 390
R2539 390
IC2506 (2/2) OPA2652U
R2592 0
R2543 150
C2530 0.01
C2532 AT 100/10
C2531 0.01
C2533 AT 100/10
6dB AMP.
V+5C
IC2505 (1/2) OPA2652U
R2528 10k
R2529 10k
R2530 390
R2531 390
R2532 390
R2533 390
IC2505 (2/2) OPA2652U
C2522 0.01
C2524 AT 100/10
C2523 0.01
C2525 AT 100/10
V−5C
COMPONENT OUT
C2595 ACH7194 1000/10
R2534 75
R2580 1k
JA2501 AKB7141 (4/6)
Y
R2535 75
Cb
JA2501 AKB7141 (5/6)
R2541 75
Cr
JA2501 AKB7141 (6/6)
C2536 0.01
JA2501 AKB7127
GCC
DET2
2CBY
2CTX
2CRX
V+5C
V−5C
C2537 100/10 AT
C2538 100/10 AT
GNDV
C3
CN
JA2504 AKN7014
R2572 1k
D2501
MR IN
GMR
L2501 1µH
D2503
C2571 0.01
2501 VNE1948
R2578 100
C2567 100/10 AT
C2566 0.1/25
R2569 100
R2574 0
IC2509
SP232AEP
VCC
GND
CLK
BUSY
C2568 1/50 AT
C1+
V+10V
C1−
C2+
C2−
V−10V
C2563 1/50 AT
C2564 1/50 AT
C2565 1/50 AT
R2575 0
R2576 0
R2587 0
R2591 0
R2589 0
GND
(NC)
(NC)
TXD
RTS (BUSY)
RXD
CN2505 AKP1213
R2585 100
R2586 100
C2581 0.01
R2581 220k
R2583 10k
D2502
C2569 0.01
C2582 YB 330p
R2584 220k
R2582 470k
Q2503 2SC4081
GNDD
RS232C Transceiver
CN2502 KP200TA10L
MR IN
MRG
V−5V
V+5V
VG
Cy OUT
VG
Cb OUT
VG
Cr OUT
G CN3303

➡ : VIDEO SIGNAL ROUTE

(Y) ➡ : VIDEO SIGNAL ROUTE (Y)

(C) ➡ : VIDEO SIGNAL ROUTE (C)

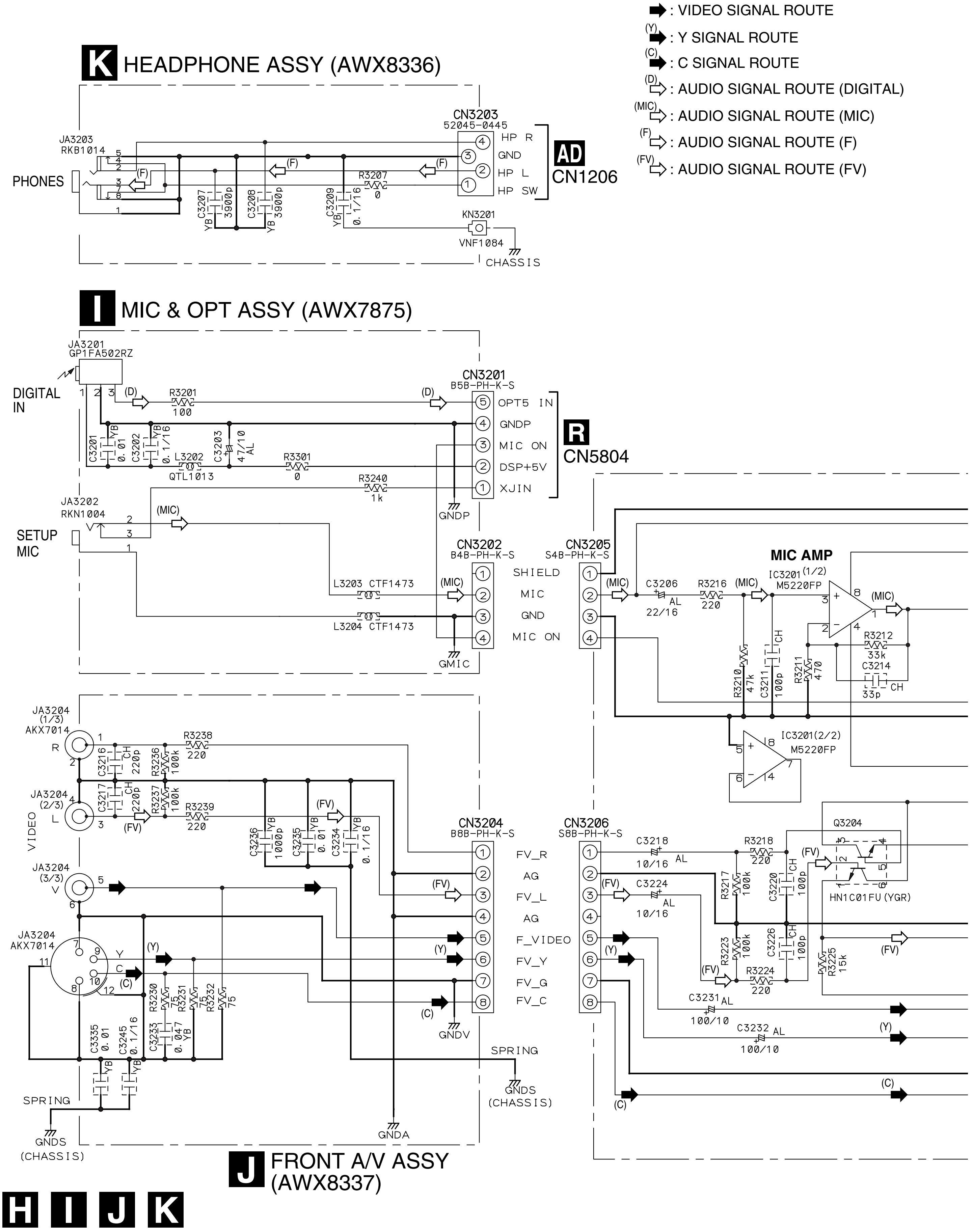
(OSD) ➡ : VIDEO SIGNAL ROUTE (OSD)

(CY) ➡ : Y SIGNAL ROUTE (COMPONENT)

(Cb) ➡ : Cb SIGNAL ROUTE (COMPONENT)

(Cr) ➡ : Cr SIGNAL ROUTE (COMPONENT)

3.9 VIDEO CON., MIC AMP, MIC & OPT, FRONT A/V and H.P. ASSYS


: VIDEO SIGNAL ROUTE
(Y) : Y SIGNAL ROUTE
(C) : C SIGNAL ROUTE
(D) : AUDIO SIGNAL ROUTE (DIGITAL)
(MIC) : AUDIO SIGNAL ROUTE (MIC)
(F) : AUDIO SIGNAL ROUTE (F)
(FV) : AUDIO SIGNAL ROUTE (FV)
K HEADPHONE ASSY (AWX8336)
JA3203
RKB1014
PHONES
CN3203
52045-0445
HP R
GND
HP L
HP SW
AD
CN1206
R3207
0
C3207
3900p
YB
C3208
3900p
YB
C3209
0.1/16
YB
KN3201
VNF1084
CHASSIS
I MIC & OPT ASSY (AWX7875)
JA3201
GP1FA502RZ
DIGITAL IN
R3201
100
CN3201
B5B-PH-K-S
OPT5 IN
GNDP
MIC ON
DSP+5V
XJIN
R
CN5804
C3201
0.01
C3202
0.1/16
C3203
47/10
AL
L3202
QTL1013
R3301
0
R3240
1k
GNDP
JA3202
RKN1004
SETUP MIC
CN3202
B4B-PH-K-S
SHIELD
MIC
GND
MIC ON
L3203 CTF1473
L3204 CTF1473
GMIC
CN3205
S4B-PH-K-S
MIC AMP
C3206
22/16
AL
R3216
220
IC3201 (1/2)
M5220FP
R3212
33k
C3214
33p
CH
R3210
47k
C3211
100p
CH
R3211
470
IC3201(2/2)
M5220FP
JA3204 (1/3)
AKX7014
R
C3216
220p
CH
R3236
100k
R3238
220
JA3204 (2/3)
L
VIDEO
C3217
220p
CH
R3237
100k
R3239
220
C3236
1000p
YB
C3235
0.01
YB
C3234
0.1/16
YB
JA3204 (3/3)
V
JA3204
AKX7014
Y
C
CN3204
B8B-PH-K-S
FV_R
AG
FV_L
AG
F_VIDEO
FV_Y
FV_G
FV_C
GNDV
R3230
75
R3231
75
R3232
75
C3233
0.047
YB
C3335
0.01
YB
C3245
0.1/16
YB
SPRING
GNDS (CHASSIS)
GNDA
SPRING
GNDS (CHASSIS)
J FRONT A/V ASSY (AWX8337)
CN3206
S8B-PH-K-S
C3218
10/16
AL
R3218
220
Q3204
HN1C01FU (YGR)
C3224
10/16
AL
R3217
100k
C3220
100p
CH
R3223
100k
C3226
100p
CH
R3224
220
R3225
15k
C3231
100/10
AL
C3232
100/10
AL

H I J K

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)",
   or 50V unless otherwise noted.
   AL:CEAL
   :CKSRYB type unless otherwise noted.
3. DIODES
   No marked Diodes are 1SS355.

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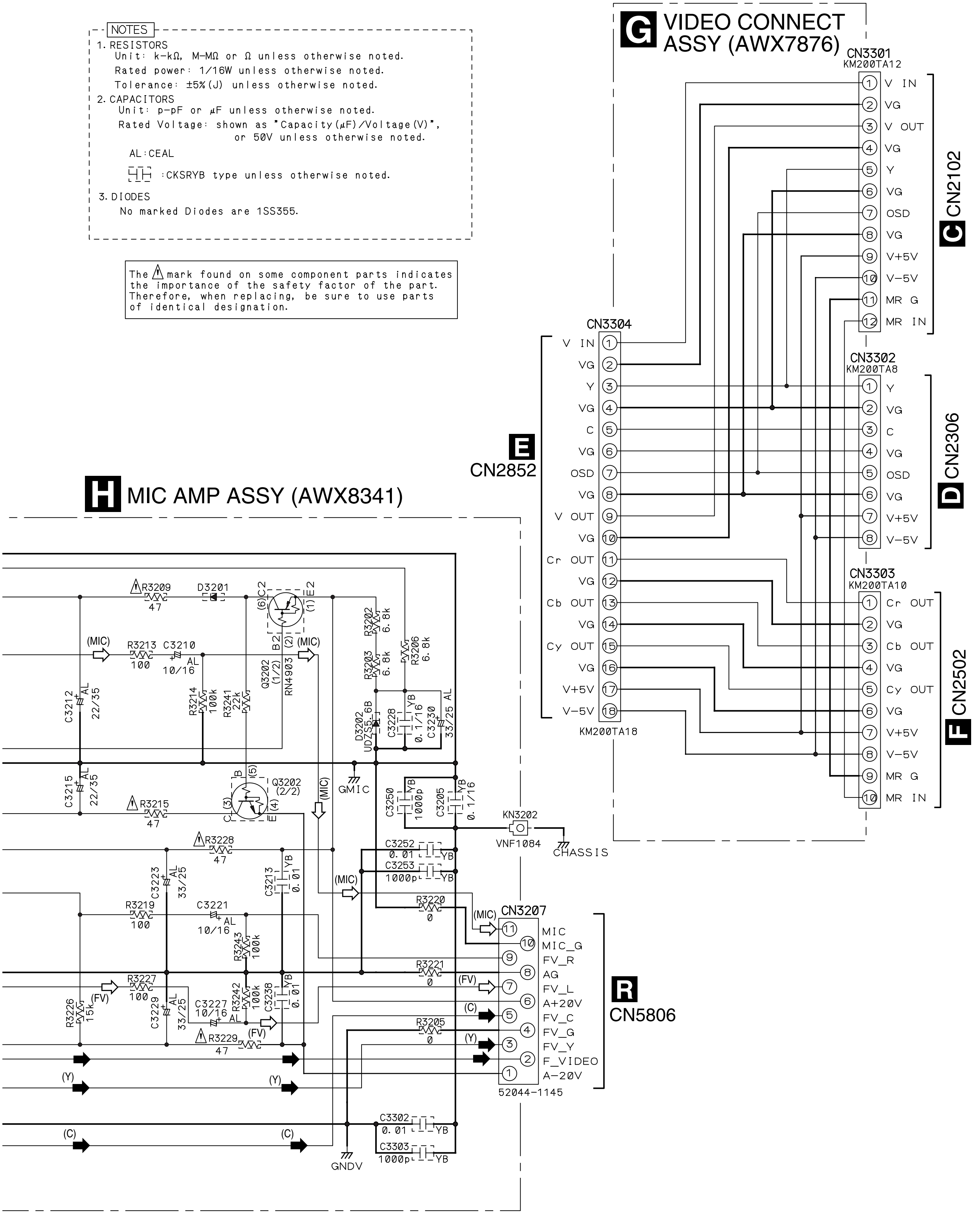
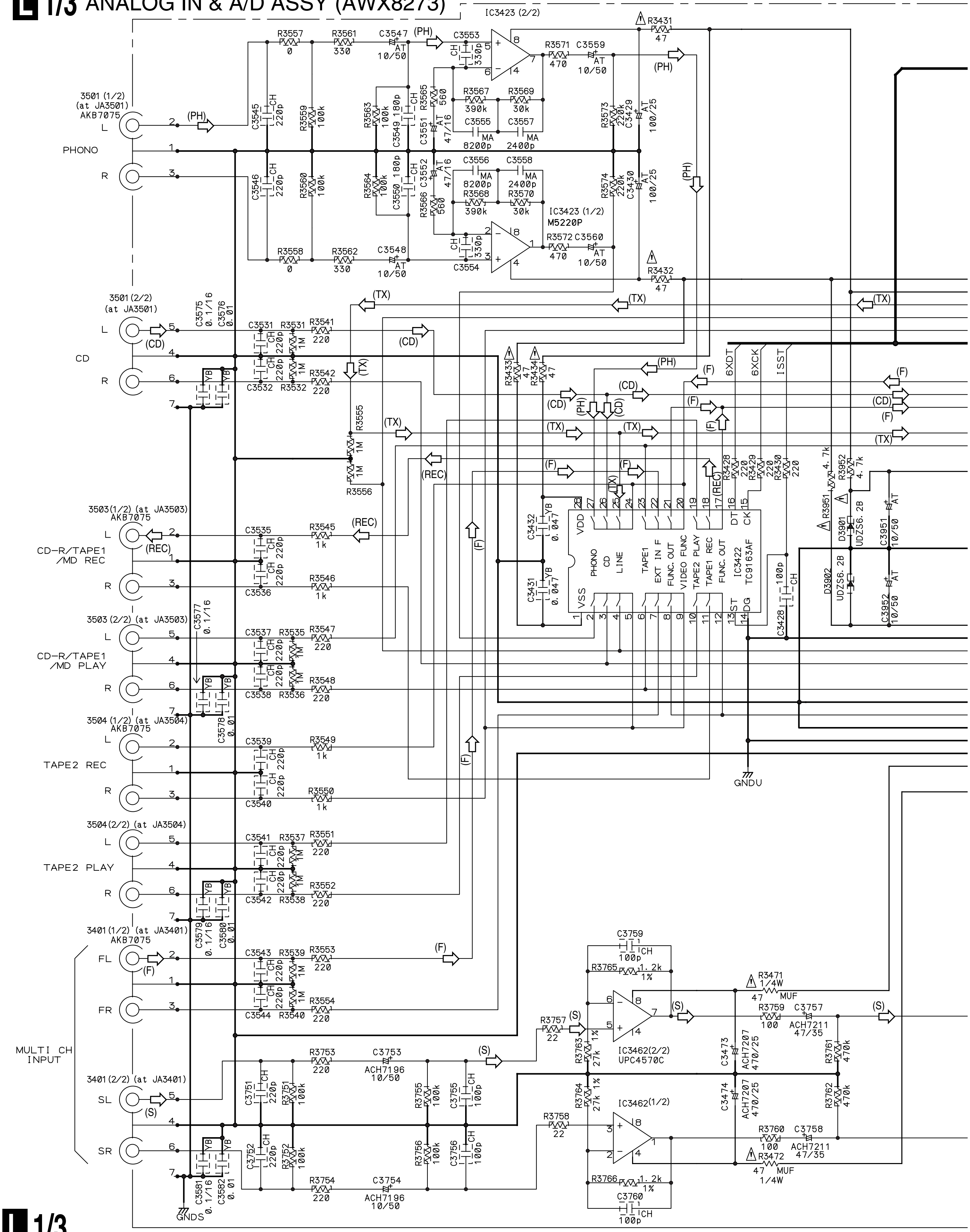

G VIDEO CONNECT ASSY (AWX7876)
CN3301 KM200TA12
V IN
VG
V OUT
Y
OSD
V+5V
V-5V
MR G
MR IN
C CN2102
CN3302 KM200TA8
C
D CN2306
CN3303 KM200TA10
Cr OUT
Cb OUT
Cy OUT
F CN2502
CN3304 KM200TA18
E CN2852
H MIC AMP ASSY (AWX8341)
R3209 47
D3201
Q3202 (1/2) RN4903
R3202 6.8k
R3206 6.8k
R3203 6.8k
R3213 100
C3210 AL 10/16
(MIC)
C3212 AL 22/35
R3214 100k
R3241 22k
D3202 UDZS5.6B
C3228 0.1/16 YB
C3230 33/25 AL
C3215 AL 22/35
R3215 47
Q3202 (2/2)
GMIC
C3250 1000p YB
C3205 0.1/16 YB
KN3202 VNF1084
CHASSIS
R3228 47
C3223 AL 33/25
C3213 YB 0.01
C3252 0.01 YB
C3253 1000p YB
R3220 0
R3219 100
C3221 AL 10/16
R3243 100k
R3227 100
(FV)
R3226 15k
C3229 AL 33/25
C3227 10/16 AL
R3242 100k
C3238 YB 0.01
R3229 47
R3221 0
R3205 0
(C)
(Y)
CN3207
MIC
MIC_G
FV_R
AG
FV_L
A+20V
FV_C
FV_G
FV_Y
F_VIDEO
A-20V
52044-1145
R CN5806
C3302 0.01 YB
C3303 1000p YB
GNDV

3.10 ANALOG IN & A/D ASSY(1/3)

L 1/3 ANALOG IN & A/D ASSY (AWX8273)



IC3423 (2/2)
IC3423 (1/2)
M5220P
R3557 0
R3561 330
C3547 AT 10/50
C3553 CH 330p
R3571 470
C3559 AT 10/50
R3431 47
R3432 47
R3567 390k
R3569 30k
C3555 MA 8200p
C3557 MA 2400p
C3556 MA 8200p
C3558 MA 2400p
R3568 390k
R3570 30k
R3563 100k
R3564 100k
C3549 180p
C3550 180p
R3565 560
R3566 560
C3551 47/16
C3552 47/16
R3573 220k
R3574 220k
C3429 AT 100/25
C3430 AT 100/25
C3545 CH 220p
C3546 CH 220p
R3559 100k
R3560 100k
R3558 0
R3562 330
C3548 AT 10/50
C3554 CH 330p
R3572 470
C3560 AT 10/50
3501 (1/2) (at JA3501) AKB7075
PHONO
3501 (2/2) (at JA3501)
CD
C3575 0.1/16
C3576 0.01
C3531 R3531 R3541 220
C3532 R3532 R3542 220
R3555 1M
R3556 1M
3503 (1/2) (at JA3503) AKB7075
CD-R/TAPE1 /MD REC
C3535 R3545 1k
C3536 R3546 1k
3503 (2/2) (at JA3503)
CD-R/TAPE1 /MD PLAY
C3577 0.1/16
C3537 R3535 R3547 220
C3538 R3536 R3548 220
C3578 0.01
3504 (1/2) (at JA3504) AKB7075
TAPE2 REC
C3539 R3549 1k
C3540 R3550 1k
3504 (2/2) (at JA3504)
TAPE2 PLAY
C3541 R3537 R3551 220
C3542 R3538 R3552 220
C3579 0.1/16
C3580 0.01
3401 (1/2) (at JA3401) AKB7075
MULTI CH INPUT
FL
FR
C3543 R3539 R3553 220
C3544 R3540 R3554 220
3401 (2/2) (at JA3401)
SL
SR
C3751 CH 220p
R3751 100k
C3752 CH 220p
R3752 100k
R3753 220
C3753 ACH7196 10/50
R3754 220
C3754 ACH7196 10/50
R3755 100k
C3755 CH 100p
R3756 100k
C3756 CH 100p
C3581 0.1/16
C3582 0.01
GNDS
R3433 47
R3434 47
6XDT
6XCK
ISST
IC3422 TC9163AF
VDD VSS PHONO CD LINE TAPE1 EXT IN F FUNC. OUT VIDEO FUNC TAPE2 PLAY TAPE1 REC FUNC. OUT DT CK ST DG
C3432 YB 0.047
C3431 YB 0.047
R3428 220
R3429 220
R3430 220
C3428 CH 100p
GNDU
R3951 4.7k
R3952 4.7k
D3901 UDZS6.2B
D3902 UDZS6.2B
C3951 AT 10/50
C3952 AT 10/50
C3759 CH 100p
R3765 1.2k 1%
R3471 1/4W 47 MUF
R3757 22
R3763 27k 1%
IC3462 (2/2) UPC4570C
R3759 100
C3757 ACH7211 47/35
C3473 ACH7207 470/25
R3761 470k
R3764 27k 1%
IC3462 (1/2)
C3474 ACH7207 470/25
R3762 470k
R3758 22
R3760 100
C3758 ACH7211 47/35
R3472 47 MUF 1/4W
R3766 1.2k 1%
C3760 CH 100p
(PH) (CD) (TX) (REC) (F) (S)

L 1/3

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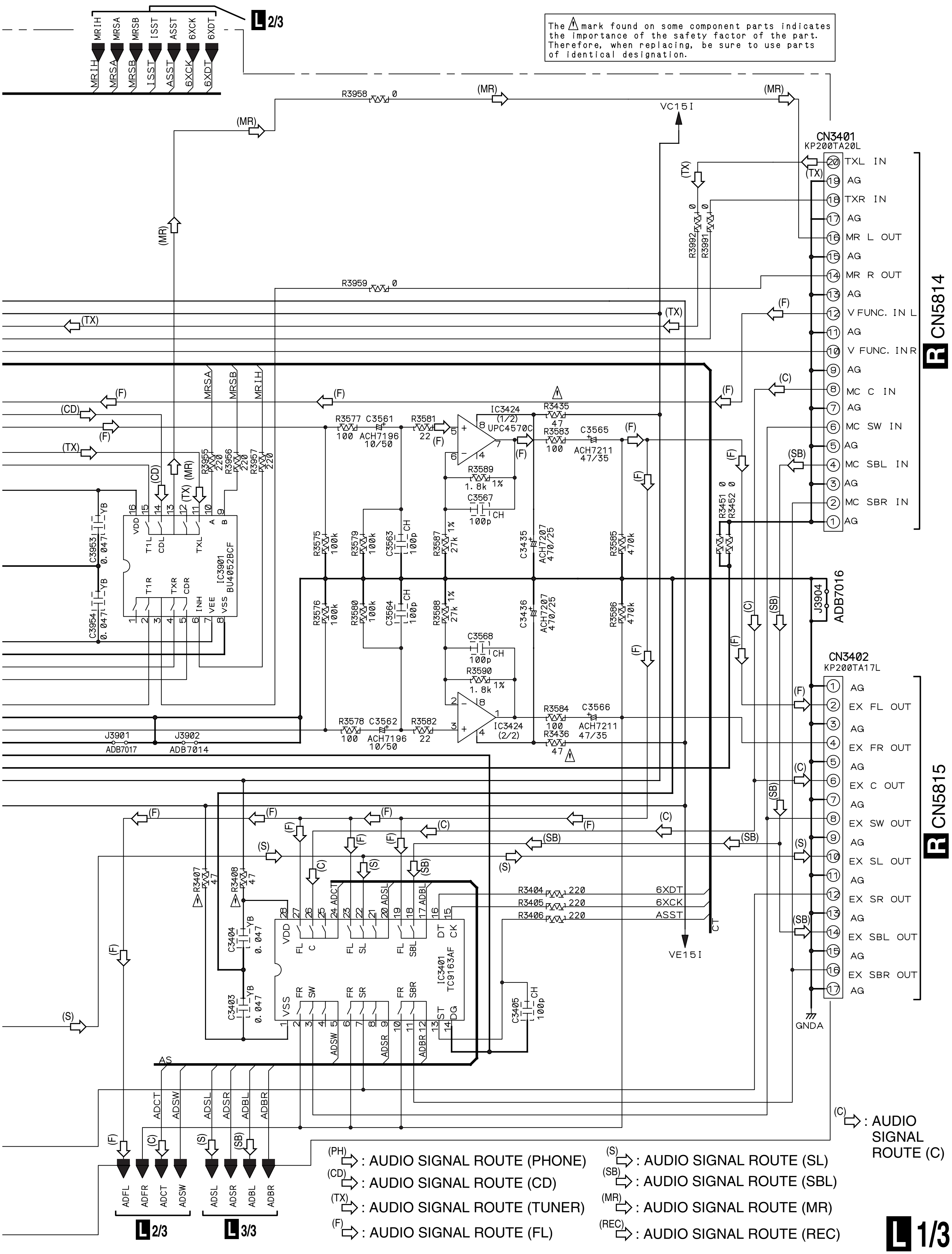


L 2/3
MRIH
MRSA
MRSB
ISST
ASST
6XCK
6XDT
R3958 0
(MR)
VC15I
CN3401
KP200TA20L
20 TXL IN
19 AG
18 TXR IN
17 AG
16 MR L OUT
15 AG
14 MR R OUT
13 AG
12 V FUNC. IN L
11 AG
10 V FUNC. IN R
9 AG
8 MC C IN
7 AG
6 MC SW IN
5 AG
4 MC SBL IN
3 AG
2 MC SBR IN
1 AG
R CN5814
(TX)
R3992 0
R3991 0
R3959 0
(F)
(C)
(SB)
(CD)
R3955 220
R3956 220
R3957 220
IC3901
BU4052BCF
VDD
T1L
CDL
TXL
T1R
TXR
CDR
INH
VEE
VSS
C3953 0.047 YB
C3954 0.047 YB
R3577 100
C3561 ACH7196 10/50
R3581 22
IC3424 (1/2) UPC4570C
R3435 47
R3583 100
C3565 ACH7211 47/35
R3589 1.8k 1%
C3567 100p CH
R3575 100k
R3579 100k
C3563 100p CH
R3587 27k 1%
C3435 ACH7207 470/25
R3585 470k
R3451 0
R3452 0
J3904 ADB7016
R3576 100k
R3580 100k
C3564 100p CH
R3588 27k 1%
C3436 ACH7207 470/25
R3586 470k
C3568 100p CH
R3590 1.8k 1%
R3578 100
C3562 ACH7196 10/50
R3582 22
IC3424 (2/2)
R3584 100
R3436 47
C3566 ACH7211 47/35
J3901 ADB7017
J3902 ADB7014
CN3402
KP200TA17L
1 AG
2 EX FL OUT
3 AG
4 EX FR OUT
5 AG
6 EX C OUT
7 AG
8 EX SW OUT
9 AG
10 EX SL OUT
11 AG
12 EX SR OUT
13 AG
14 EX SBL OUT
15 AG
16 EX SBR OUT
17 AG
R CN5815
GNDA
(S)
R3407 47
R3408 47
C3404 0.047 YB
C3403 0.047 YB
IC3401 TC9163AF
ADCT
ADSL
ADBL
ADSW
ADSR
ADBR
FL
C
SL
SBL
FR
SW
SR
SBR
VDD
VSS
DT
CK
ST
DG
R3404 220
R3405 220
R3406 220
6XDT
6XCK
ASST
CT
VE15I
C3405 100p CH
AS
ADFL
ADFR
ADCT
ADSW
ADSL
ADSR
ADBL
ADBR
L 2/3
L 3/3

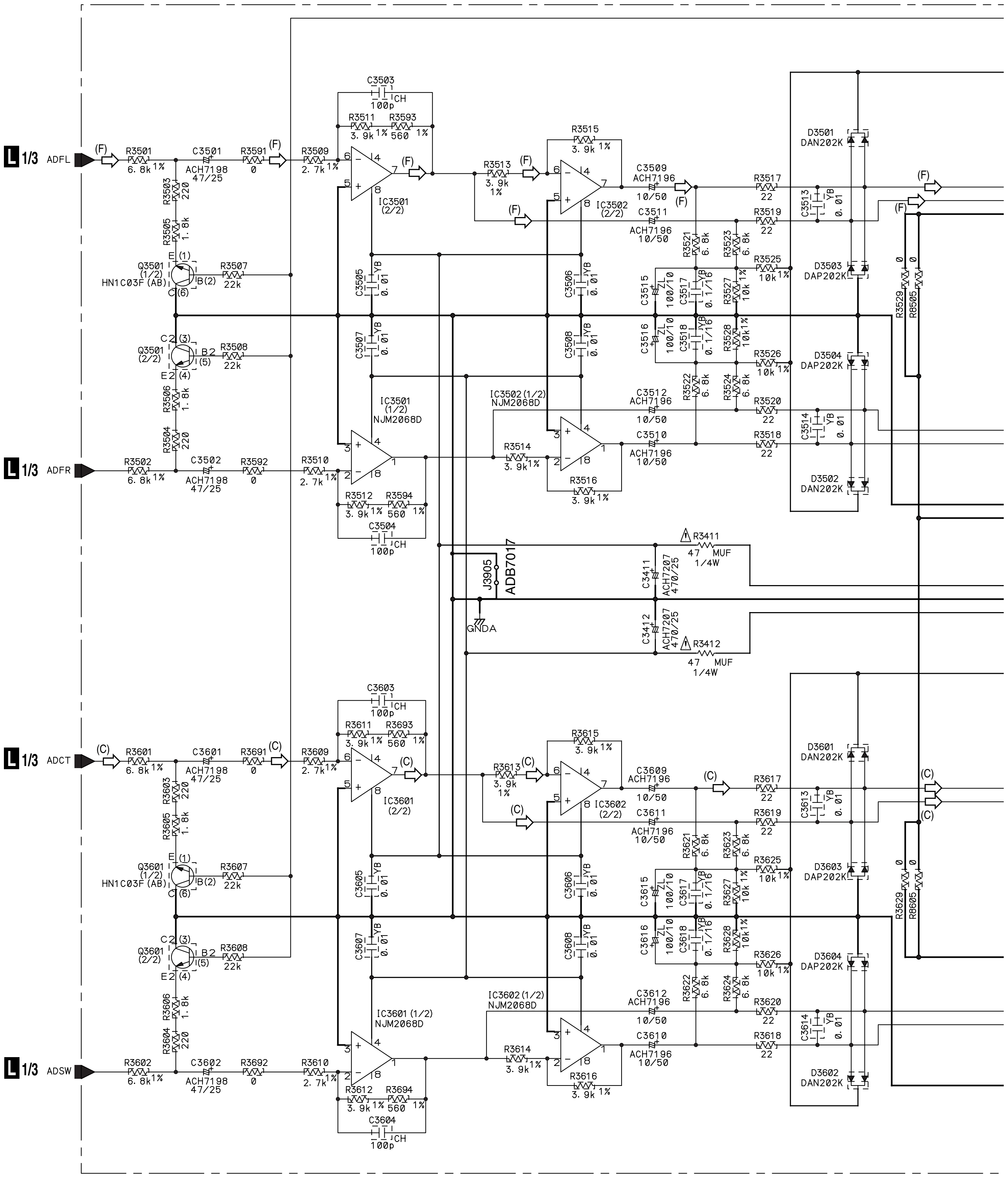
(C) : AUDIO SIGNAL ROUTE (C)

(PH) : AUDIO SIGNAL ROUTE (PHONE)
(CD) : AUDIO SIGNAL ROUTE (CD)
(TX) : AUDIO SIGNAL ROUTE (TUNER)
(F) : AUDIO SIGNAL ROUTE (FL)
(S) : AUDIO SIGNAL ROUTE (SL)
(SB) : AUDIO SIGNAL ROUTE (SBL)
(MR) : AUDIO SIGNAL ROUTE (MR)
(REC) : AUDIO SIGNAL ROUTE (REC)

L 1/3

3.11 ANALOG IN & A/D ASSY(2/3)

L 2/3 ANALOG IN & A/D ASSY (AWX8273)


L 1/3 ADFL
L 1/3 ADFR
L 1/3 ADCT
L 1/3 ADSW
(F)
(C)
R3501 6.8k 1%
C3501 ACH7198 47/25
R3591 0
R3509 2.7k 1%
R3503 220
R3505 1.8k
Q3501 (1/2) HN1C03F(AB)
E(1) B(2) C(6)
R3507 22k
Q3501 (2/2)
C2(3) B2 (5) E2(4)
R3508 22k
R3506 1.8k
R3504 220
R3502 6.8k 1%
C3502 ACH7198 47/25
R3592 0
R3510 2.7k 1%
C3503 100p CH
R3511 3.9k 1%
R3593 560 1%
IC3501 (2/2)
IC3501 (1/2) NJM2068D
C3505 YB 0.01
C3507 YB 0.01
R3512 3.9k 1%
R3594 560 1%
C3504 100p CH
R3513 3.9k 1%
R3515 3.9k 1%
IC3502 (2/2)
IC3502 (1/2) NJM2068D
C3506 YB 0.01
C3508 YB 0.01
R3514 3.9k 1%
R3516 3.9k 1%
C3509 ACH7196 10/50
C3511 ACH7196 10/50
C3512 ACH7196 10/50
C3510 ACH7196 10/50
R3521 6.8k
R3523 6.8k
R3522 6.8k
R3524 6.8k
C3515 ZL 100/10
C3517 YB 0.1/16
C3516 ZL 100/10
C3518 YB 0.1/16
R3527 10k 1%
R3528 10k 1%
R3517 22
R3519 22
R3520 22
R3518 22
R3525 10k 1%
R3526 10k 1%
C3513 YB 0.01
C3514 YB 0.01
D3501 DAN202K
D3503 DAP202K
D3504 DAP202K
D3502 DAN202K
R3529 0
R8505 0
R3411 47 MUF 1/4W
C3411 ACH7207 470/25
C3412 ACH7207 470/25
R3412 47 MUF 1/4W
J3905
ADB7017
GNDA
R3601 6.8k 1%
C3601 ACH7198 47/25
R3691 0
R3609 2.7k 1%
R3603 220
R3605 1.8k
Q3601 (1/2) HN1C03F(AB)
R3607 22k
Q3601 (2/2)
R3608 22k
R3606 1.8k
R3604 220
R3602 6.8k 1%
C3602 ACH7198 47/25
R3692 0
R3610 2.7k
C3603 100p CH
R3611 3.9k 1%
R3693 560 1%
IC3601 (2/2)
IC3601 (1/2) NJM2068D
C3605 YB 0.01
C3607 YB 0.01
R3612 3.9k 1%
R3694 560 1%
C3604 100p CH
R3613 3.9k 1%
R3615 3.9k 1%
IC3602 (2/2)
IC3602 (1/2) NJM2068D
C3606 YB 0.01
C3608 YB 0.01
R3614 3.9k 1%
R3616 3.9k 1%
C3609 ACH7196 10/50
C3611 ACH7196 10/50
C3612 ACH7196 10/50
C3610 ACH7196 10/50
R3621 6.8k
R3623 6.8k
R3622 6.8k
R3624 6.8k
C3615 ZL 100/10
C3617 YB 0.1/16
C3616 ZL 100/10
C3618 YB 0.1/16
R3627 10k 1%
R3628 10k 1%
R3617 22
R3619 22
R3620 22
R3618 22
R3625 10k 1%
R3626 10k 1%
C3613 YB 0.01
C3614 YB 0.01
D3601 DAN202K
D3603 DAP202K
D3604 DAP202K
D3602 DAN202K
R3629 0
R8605 0

L 2/3

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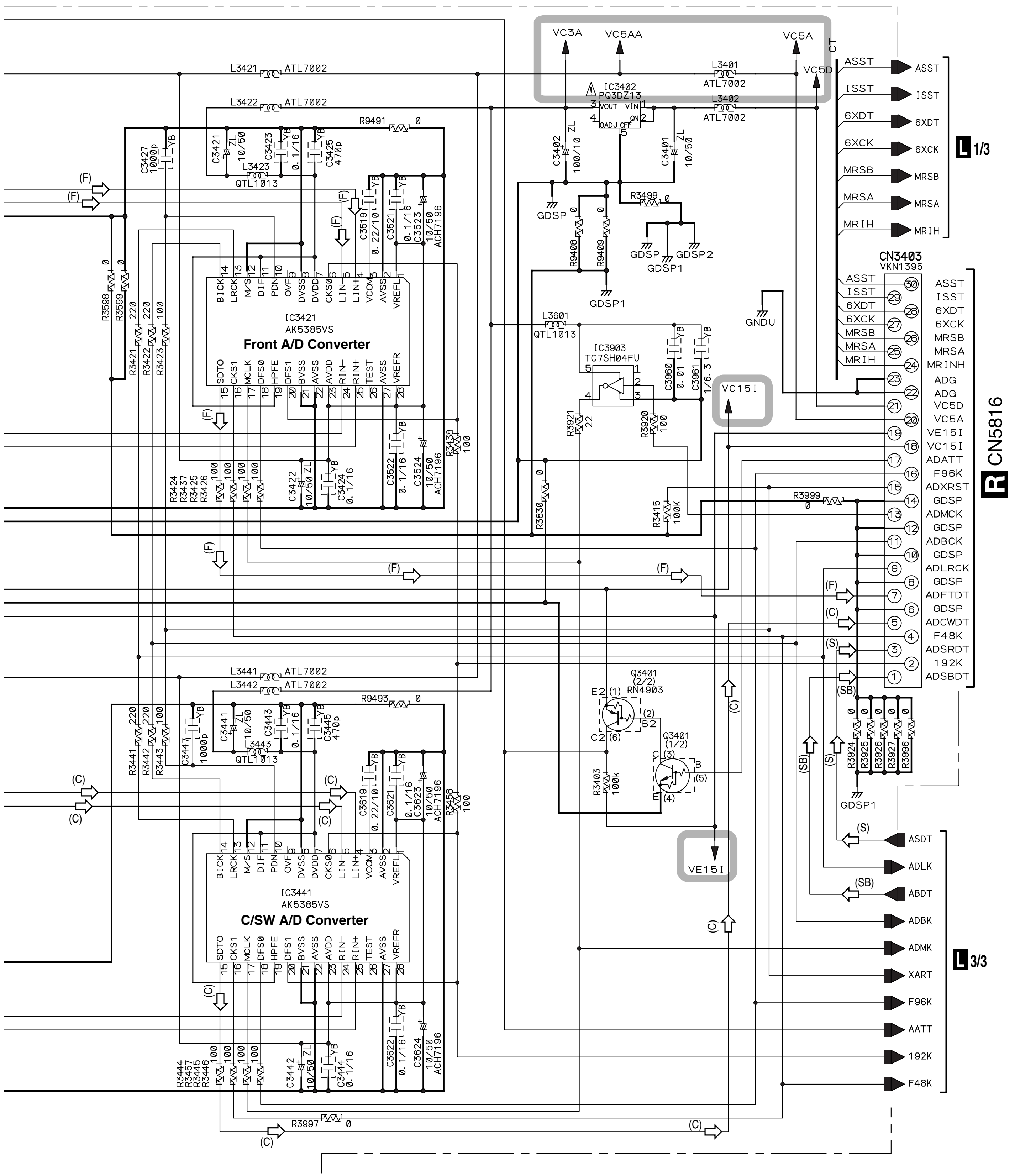
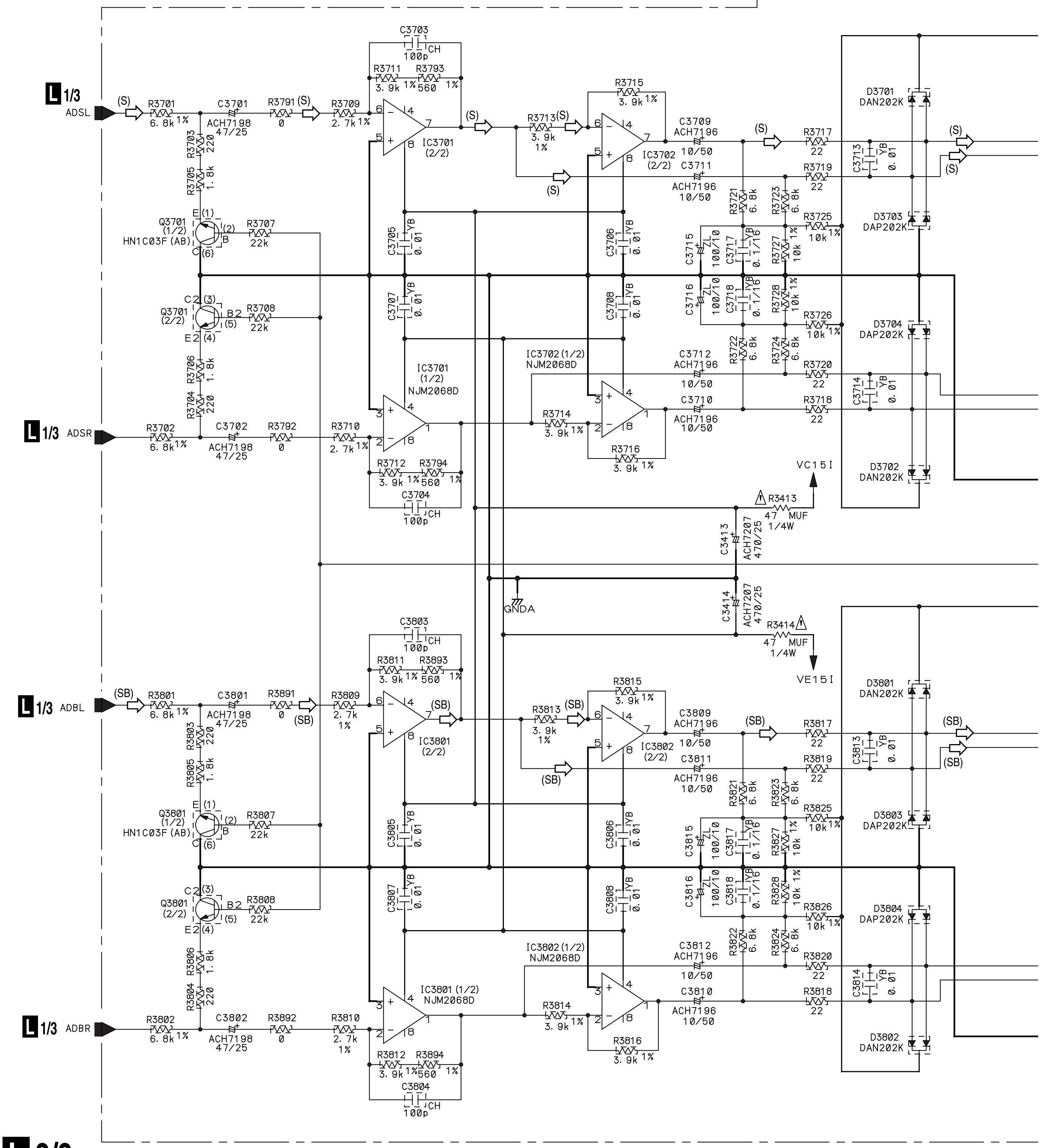

A
B
C
D
E
F
VC3A
VC5AA
VC5A
VC5D
CT
L3421 ATL7002
L3422 ATL7002
L3401 ATL7002
L3402 ATL7002
IC3402 PQ3DZ13
VOUT VIN
QADJ OFF ON
C3402 ZL 100/10
C3401 ZL 10/50
GDSP
R3499 10
R9408 0
R9409 0
GDSP GDSP2
GDSP1
L3601 QTL1013
IC3903 TC7SH04FU
C3960 0.01 YB
C3961 1/6.3 YB
R3921 22
R3920 100
VC15I
GNDU
R9491 0
C3427 1000p YB
C3421 ZL 10/50
C3423 0.1/16 YB
C3425 470p YB
L3423 QTL1013
C3519 0.22/10 YB
C3521 0.1/16 YB
C3523 10/50 ACH7196
R3598 0
R3599 0
R3421 220
R3422 220
R3423 100
IC3421 AK5385VS
Front A/D Converter
BICK LRCK M/S DIF PDN OVF DVSS DVDD CKS0 LIN- LIN+ VCOM AVSS VREFL
SDTO CKS1 MCLK DFS0 HPFE DFS1 BVSS AVSS AVDD RIN- RIN+ TEST AVSS VREFR
R3424 R3437 R3425 R3426 100
C3422 ZL 10/50
C3424 0.1/16 YB
C3522 0.1/16 YB
C3524 10/50 ACH7196
R3438 100
R3830 0
R3415 100K
R3999 0
ASST
ISST
6XDT
6XCK
MRSB
MRSA
MRIH
L 1/3
CN3403 VKN1395
ASST ISST 6XDT 6XCK MRSB MRSA MRINH ADG ADG VC5D VC5A VE15I VC15I ADATT F96K ADXRST GDSP ADMCK GDSP ADBCK GDSP ADLRCK GDSP ADFTDT GDSP ADCWDT F48K ADSRDT 192K ADSBDT
R CN5816
Q3401 (2/2) RN4903
Q3401 (1/2)
R3403 100K
E2 C2 B2 C B E
VE15I
R3924 R3925 R3926 R3927 R3996 0
GDSP1
L3441 ATL7002
L3442 ATL7002
R9493 0
R3441 220
R3442 220
R3443 100
C3447 1000p YB
C3441 ZL 10/50
L3443 QTL1013
C3443 0.1/16 YB
C3445 470p YB
C3619 0.22/10 YB
C3621 0.1/16 YB
C3623 10/50 ACH7196
R3458 100
IC3441 AK5385VS
C/SW A/D Converter
R3444 R3457 R3445 R3446 100
C3442 ZL 10/50
C3444 0.1/16 YB
C3622 0.1/16 YB
C3624 10/50 ACH7196
R3997 0
ASDT
ADLK
ABDT
ADBK
ADMK
XART
F96K
AATT
192K
F48K
L 3/3
(F)
(C)
(S)
(SB)

(F) ⇨ : AUDIO SIGNAL ROUTE (F)
(C) ⇨ : AUDIO SIGNAL ROUTE (C)
(S) ⇨ : AUDIO SIGNAL ROUTE (SL)
(SB) ⇨ : AUDIO SIGNAL ROUTE (SBL)

3.12 ANALOG IN & A/D ASSY(3/3)

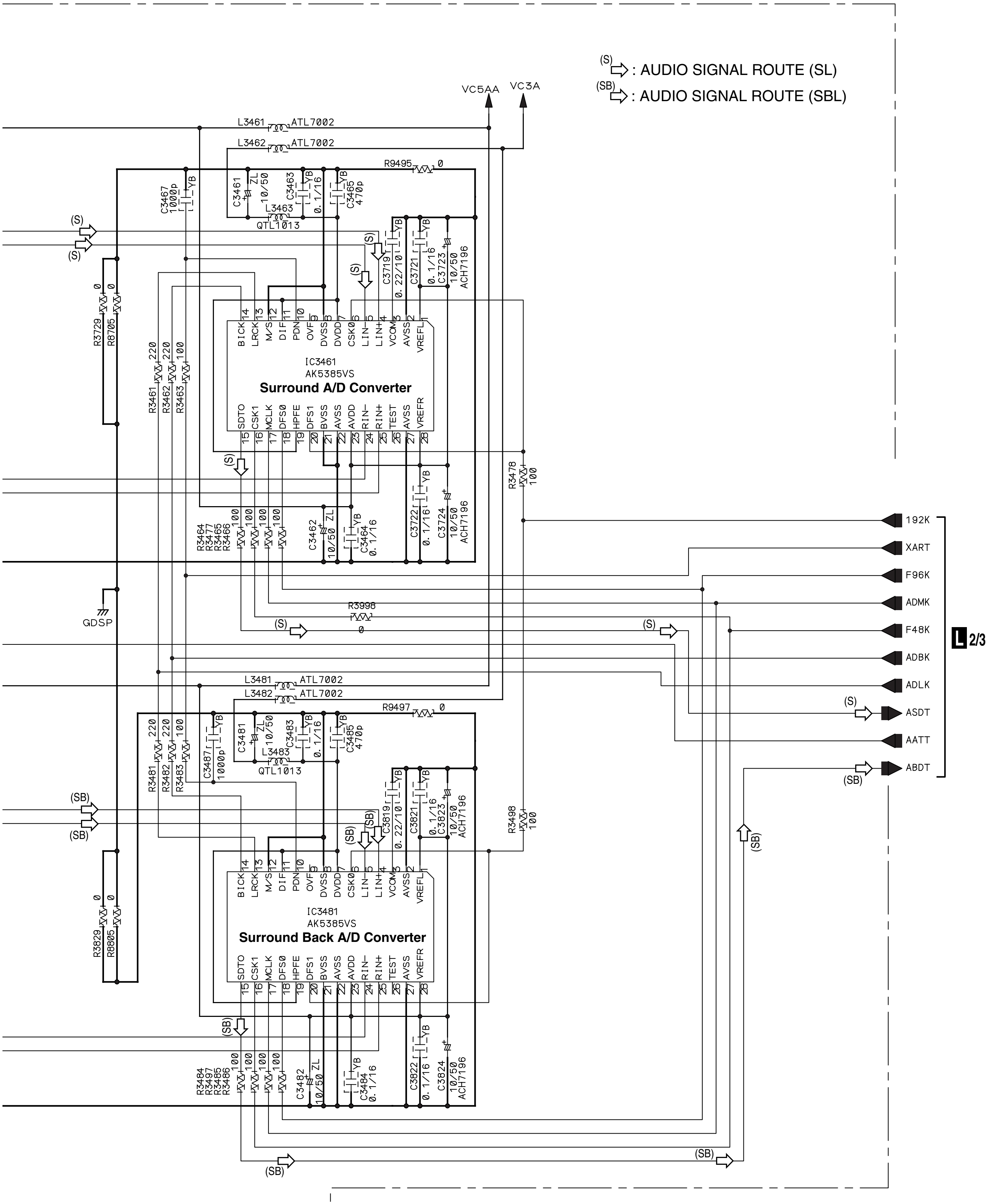
NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
MUF:RD1/4MUF
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
ZL:CEHAZL

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

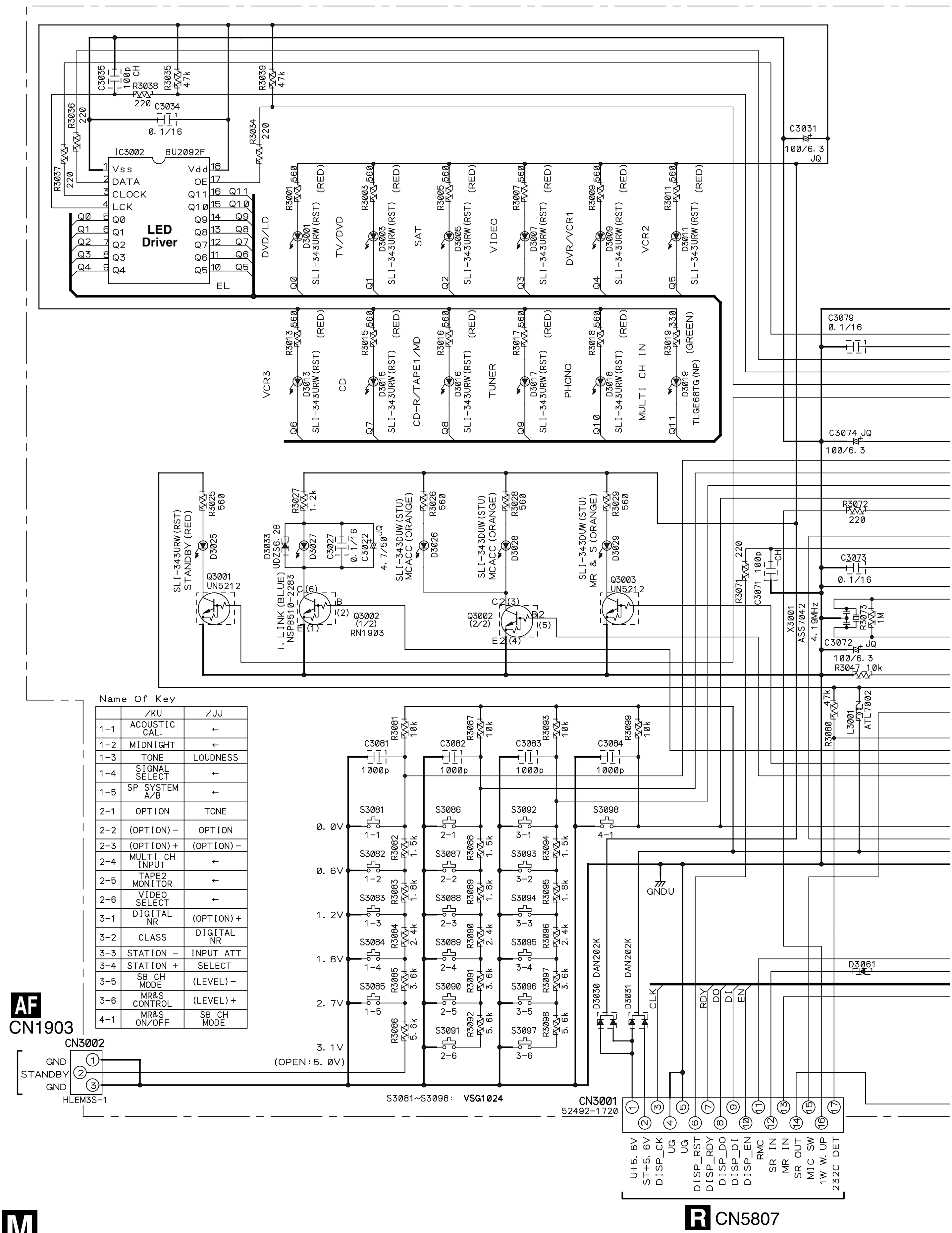

L 1/3 ADSL
L 1/3 ADSR
L 1/3 ADBL
L 1/3 ADBR
(S)
(SB)
R3701 6.8k 1%
C3701 ACH7198 47/25
R3791 0
R3709 2.7k 1%
C3703 100p CH
R3711 3.9k 1%
R3793 560 1%
IC3701 (2/2)
IC3701 (1/2) NJM2068D
R3703 220
R3705 1.8k
Q3701 (1/2) HN1C03F(AB)
Q3701 (2/2)
R3707 22k
R3708 22k
R3706 1.8k
R3704 220
R3702 6.8k 1%
C3702 ACH7198 47/25
R3792 0
R3710 2.7k 1%
R3712 3.9k 1%
R3794 560 1%
C3704 100p CH
C3705 YB 0.01
C3706 YB 0.01
C3707 YB 0.01
C3708 YB 0.01
R3713 3.9k 1%
R3715 3.9k 1%
IC3702 (2/2)
IC3702(1/2) NJM2068D
R3714 3.9k 1%
R3716 3.9k 1%
C3709 ACH7196 10/50
C3711 ACH7196 10/50
C3712 ACH7196 10/50
C3710 ACH7196 10/50
R3721 6.8k
R3723 6.8k
R3722 6.8k
R3724 6.8k
C3715 ZL 100/10
C3716 ZL 100/10
C3717 YB 0.1/16
C3718 YB 0.1/16
R3727 10k 1%
R3728 10k 1%
R3717 22
R3719 22
R3725 10k 1%
R3726 10k 1%
R3720 22
R3718 22
C3713 YB 0.01
C3714 YB 0.01
D3701 DAN202K
D3703 DAP202K
D3704 DAP202K
D3702 DAN202K
VC15I
⚠ R3413 47 MUF 1/4W
C3413 ACH7207 470/25
C3414 ACH7207 470/25
GNDA
R3414 ⚠ 47 MUF 1/4W
VE15I
R3801 6.8k 1%
C3801 ACH7198 47/25
R3891 0
R3809 2.7k 1%
C3803 100p CH
R3811 3.9k 1%
R3893 560 1%
IC3801 (2/2)
IC3801 (1/2) NJM2068D
R3803 220
R3805 1.8k
Q3801 (1/2) HN1C03F(AB)
Q3801 (2/2)
R3807 22k
R3808 22k
R3806 1.8k
R3804 220
R3802 6.8k 1%
C3802 ACH7198 47/25
R3892 0
R3810 2.7k 1%
R3812 3.9k 1%
R3894 560 1%
C3804 100p CH
C3805 YB 0.01
C3806 YB 0.01
C3807 YB 0.01
C3808 YB 0.01
R3813 3.9k 1%
R3815 3.9k 1%
IC3802 (2/2)
IC3802(1/2) NJM2068D
R3814 3.9k 1%
R3816 3.9k 1%
C3809 ACH7196 10/50
C3811 ACH7196 10/50
C3812 ACH7196 10/50
C3810 ACH7196 10/50
R3821 6.8k
R3823 6.8k
R3822 6.8k
R3824 6.8k
C3815 ZL 100/10
C3816 ZL 100/10
C3817 YB 0.1/16
C3818 YB 0.1/16
R3827 10k 1%
R3828 10k 1%
R3817 22
R3819 22
R3825 10k 1%
R3826 10k 1%
R3820 22
R3818 22
C3813 YB 0.01
C3814 YB 0.01
D3801 DAN202K
D3803 DAP202K
D3804 DAP202K
D3802 DAN202K

L 3/3

L 3/3 ANALOG IN & A/D ASSY (AWX8273)


(S) : AUDIO SIGNAL ROUTE (SL)
(SB) : AUDIO SIGNAL ROUTE (SBL)
VC5AA
VC3A
L3461 ATL7002
L3462 ATL7002
R9495 0
C3467 1000p YB
C3461 ZL 10/50
C3463 YB 0.1/16
C3465 YB 470p
L3463 QTL1013
C3719 YB 0.22/10
C3721 YB 0.1/16
C3723 10/50 ACH7196
R3729 0
R8705 0
R3461 220
R3462 220
R3463 100
IC3461
AK5385VS
Surround A/D Converter
BICK LRCK M/S DIF PDN OVF DVSS DVDD CSK0 LIN– LIN+ VCOM AVSS VREFL
SDTO CSK1 MCLK DFS0 HPFE DFS1 BVSS AVSS AVDD RIN– RIN+ TEST AVSS VREFR
R3478 100
R3464 R3477 R3465 R3466 100 100 100 100
C3462 ZL 10/50
C3464 YB 0.1/16
C3722 YB 0.1/16
C3724 10/50 ACH7196
GDSP
R3998 0
L3481 ATL7002
L3482 ATL7002
R9497 0
R3481 220
R3482 220
R3483 100
C3487 1000p YB
C3481 ZL 10/50
C3483 YB 0.1/16
C3485 YB 470p
L3483 QTL1013
C3819 YB 0.22/10
C3821 YB 0.1/16
C3823 10/50 ACH7196
R3498 100
R3829 0
R8805 0
IC3481
AK5385VS
Surround Back A/D Converter
R3484 R3497 R3485 R3486 100 100 100 100
C3482 ZL 10/50
C3484 YB 0.1/16
C3822 YB 0.1/16
C3824 10/50 ACH7196
192K
XART
F96K
ADMK
F48K
ADBK
ADLK
ASDT
AATT
ABDT
L 2/3

3.13 DISPLAY, INPUT SEL, MULTI JOG and VOL ASSYS

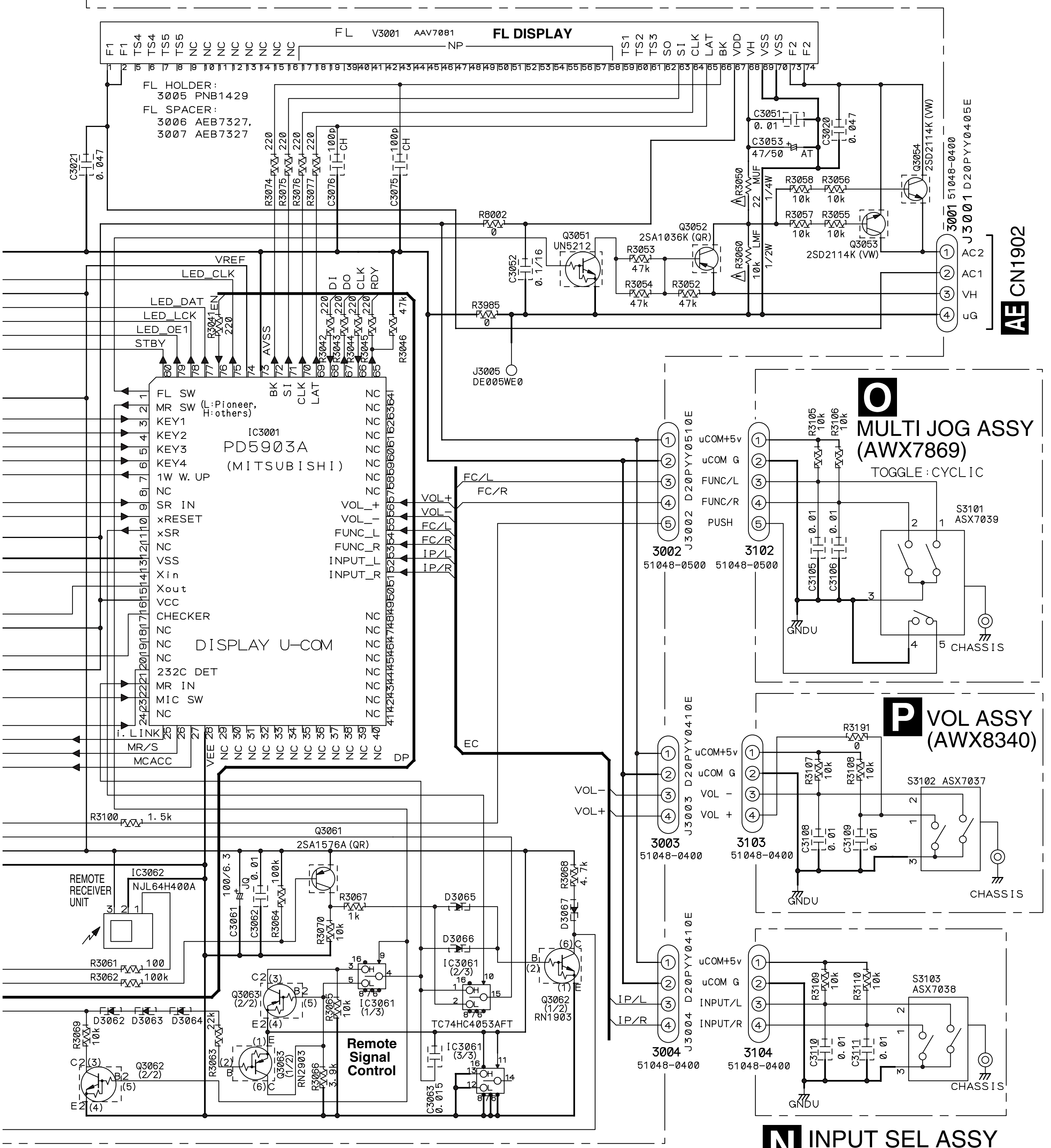

IC3002 BU2092F
LED Driver
Vss
DATA
CLOCK
LCK
Q0
Q1
Q2
Q3
Q4
Vdd
OE
Q11
Q10
Q9
Q8
Q7
Q6
Q5
EL
C3035 100p CH
R3038 220
R3035 47k
C3034 0.1/16
R3039 47k
R3034 220
R3036 220
R3037 220
C3031 100/6.3 JQ
DVD/LD
R3001 560 (RED)
D3001 SLI-343URW(RST)
TV/DVD
R3003 560 (RED)
D3003 SLI-343URW(RST)
SAT
R3005 560 (RED)
D3005 SLI-343URW(RST)
VIDEO
R3007 560 (RED)
D3007 SLI-343URW(RST)
DVR/VCR1
R3009 560 (RED)
D3009 SLI-343URW(RST)
VCR2
R3011 560 (RED)
D3011 SLI-343URW(RST)
VCR3
R3013 560 (RED)
D3013 SLI-343URW(RST)
CD
R3015 560 (RED)
D3015 SLI-343URW(RST)
CD-R/TAPE1/MD
R3016 560 (RED)
D3016 SLI-343URW(RST)
TUNER
R3017 560 (RED)
D3017 SLI-343URW(RST)
PHONO
R3018 560 (RED)
D3018 SLI-343URW(RST)
MULTI CH IN
R3019 330 (GREEN)
D3019 TLGE68TG(NP)
C3079 0.1/16
C3074 JQ 100/6.3
R3072 220
C3073 0.1/16
R3071 220
C3071 100p CH
X3001 ASS7042 4.19MHz
R3073 1M
C3072 JQ 100/6.3
R3047 10k
R3080 47k
L3001 ATL7002
SLI-343URW(RST) STANDBY(RED)
R3025 560
D3025
Q3001 UN5212
R3027 1.2k
D3033 UDZS6.2B
D3027
C3027 0.1/16
C3022 4.7/50 JQ
i.LINK(BLUE) NSPB510-2283
Q3002 (1/2) RN1903
SLI-343DUW(STU) MCACC(ORANGE)
R3026 560
D3026
SLI-343DUW(STU) MCACC(ORANGE)
R3028 560
D3028
Q3002 (2/2)
SLI-343DUW(STU) MR & S(ORANGE)
R3029 560
D3029
Q3003 UN5212
C3081 1000p
R3081 10k
C3082 1000p
R3087 10k
C3083 1000p
R3093 10k
C3084 1000p
R3099 10k
0.0V
0.6V
1.2V
1.8V
2.7V
3.1V
(OPEN:5.0V)
S3081 1-1
S3082 1-2
S3083 1-3
S3084 1-4
S3085 1-5
R3082 1.5k
R3083 1.8k
R3084 2.4k
R3085 3.6k
R3086 5.6k
S3086 2-1
S3087 2-2
S3088 2-3
S3089 2-4
S3090 2-5
S3091 2-6
R3088 1.5k
R3089 1.8k
R3090 2.4k
R3091 3.6k
R3092 5.6k
S3092 3-1
S3093 3-2
S3094 3-3
S3095 3-4
S3096 3-5
S3097 3-6
R3094 1.5k
R3095 1.8k
R3096 2.4k
R3097 3.6k
R3098 5.6k
S3098 4-1
S3081~S3098: VSG1024
GNDU
D3030 DAN202K
D3031 DAN202K
CLK
RDY
DO
DI
EN
D3061
AF
CN1903
CN3002
GND
STANDBY
GND
HLEM3S-1
CN3001
52492-1720
U+5.6V
ST+5.6V
DISP_CK
UG
UG
DISP_RST
DISP_RDY
DISP_DO
DISP_DI
DISP_EN
RMC
SR IN
MR IN
SR OUT
MIC SW
1W W.UP
232C DET
R
CN5807

Name Of Key

	/KU	/JJ
1-1	ACOUSTIC CAL.	←
1-2	MIDNIGHT	←
1-3	TONE	LOUDNESS
1-4	SIGNAL SELECT	←
1-5	SP SYSTEM A/B	←
2-1	OPTION	TONE
2-2	(OPTION) –	OPTION
2-3	(OPTION) +	(OPTION) –
2-4	MULTI CH INPUT	←
2-5	TAPE2 MONITOR	←
2-6	VIDEO SELECT	←
3-1	DIGITAL NR	(OPTION) +
3-2	CLASS	DIGITAL NR
3-3	STATION –	INPUT ATT
3-4	STATION +	SELECT
3-5	SB CH MODE	(LEVEL) –
3-6	MR&S CONTROL	(LEVEL) +
4-1	MR&S ON/OFF	SB CH MODE

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

M DISPLAY ASSY (AWX8317)

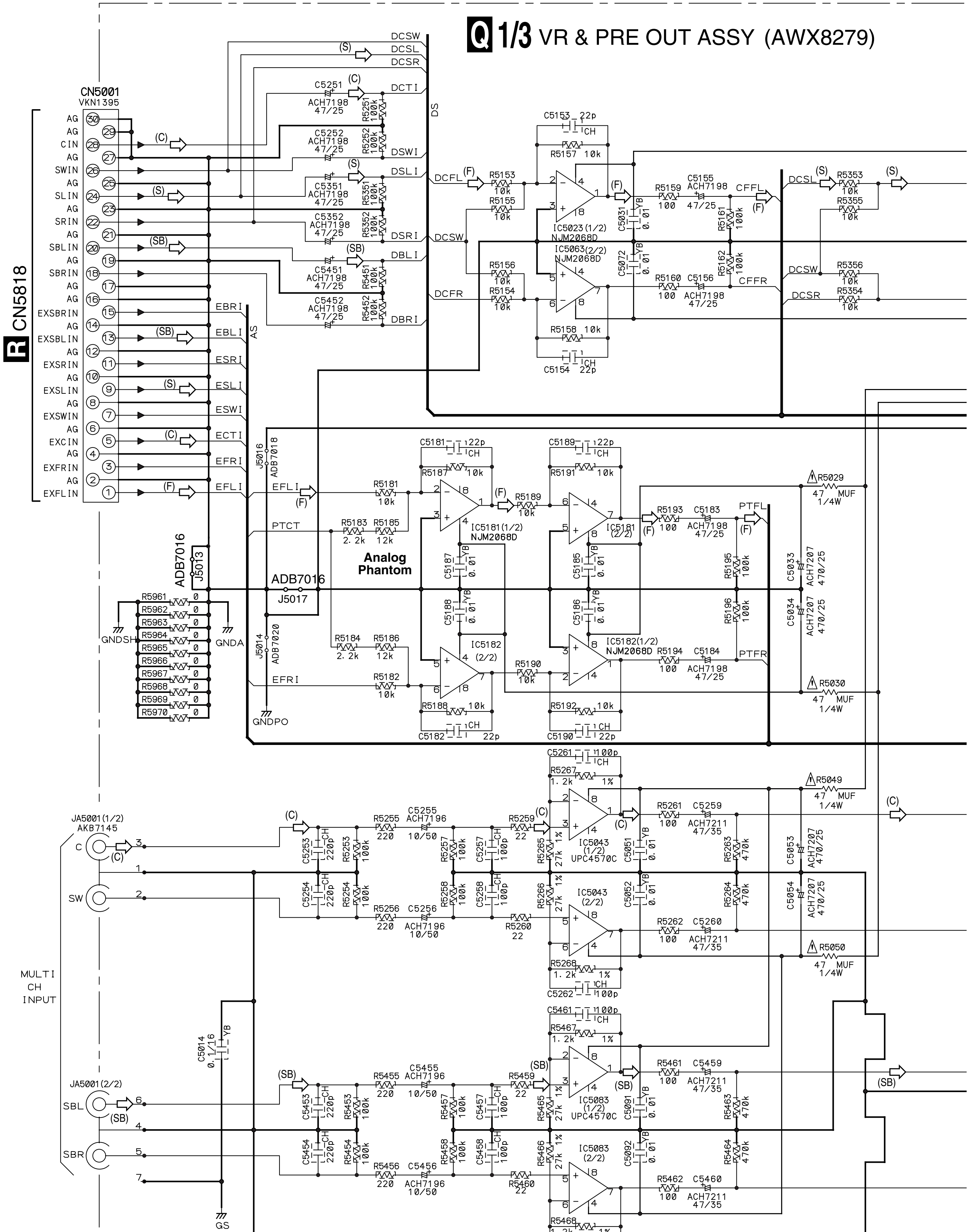

FL V3001 AAV7081 FL DISPLAY
F1 F1 TS4 TS4 TS5 TS5 NC NC NC NC NC NC NC
NP
TS1 TS2 TS3 SO SI CLK LAT BK VDD VH VSS VSS F2 F2
FL HOLDER: 3005 PNB1429
FL SPACER: 3006 AEB7327, 3007 AEB7327
C3021 0.047
R3074 220
R3075 220
R3076 220
R3077 220
C3076 100p CH
C3075 100p CH
C3051 0.01
C3053 47/50 AT
C3020 0.047
R3050 22 MUF 1/4W
R3058 10k
R3056 10k
R3057 10k
R3055 10k
Q3054 2SD2114K (VW)
Q3053 2SD2114K (VW)
3001 51048-0400
J3001 D20PYY0405E
R8002 0
Q3051 UN5212
Q3052 2SA1036K (QR)
R3053 47k
R3054 47k
R3052 47k
R3060 10k LMF 1/2W
C3052 0.1/16
R3985 0
J3005 DE005WE0
AC2 AC1 VH uG
AE CN1902
VREF
LED_CLK
LED_DAT
LED_LCK
LED_OE1
STBY
R3041 220 EN
AVSS
DI DO CLK RDY
R3042 220 R3043 220 R3044 220 R3045 220
R3046 47k
BK SI CLK LAT
IC3001 PD5903A (MITSUBISHI)
DISPLAY U-COM
FL SW
MR SW (L:Pioneer, H:others)
KEY1 KEY2 KEY3 KEY4
1W W. UP
NC
SR IN
xRESET
xSR
VSS
Xin
Xout
VCC
CHECKER
232C DET
MR IN
MIC SW
i. LINK
MR/S
MCACC
VEE
VOL_+ VOL_- FUNC_L FUNC_R INPUT_L INPUT_R
VOL+ VOL- FC/L FC/R IP/L IP/R
FC/L FC/R
EC
DP
R3100 1.5k
Q3061 2SA1576A (QR)
REMOTE RECEIVER UNIT
IC3062 NJL64H400A
C3061 100/6.3
C3062 0.01 JQ
R3064 100k
R3067 1k
R3070 10k
R3068 4.7k
D3067
D3065
D3066
IC3061 (2/3)
IC3061 (1/3)
IC3061 (3/3)
TC74HC4053AFT
Q3062 (1/2) RN1903
Q3063 (2/2)
Q3063 (1/2) RN2903
Q3062 (2/2)
R3061 100
R3062 100k
R3065 10k
R3063 22k
R3066 3.9k
R3069 10k
D3062 D3063 D3064
C3063 0.015
Remote Signal Control
O MULTI JOG ASSY (AWX7869)
TOGGLE: CYCLIC
J3002 D20PYY0510E
3002 51048-0500
3102 51048-0500
uCOM+5v uCOM G FUNC/L FUNC/R PUSH
R3105 10k R3106 10k
C3105 0.01 C3106 0.01
S3101 ASX7039
GNDU CHASSIS
P VOL ASSY (AWX8340)
J3003 D20PYY0410E
3003 51048-0400
3103 51048-0400
uCOM+5v uCOM G VOL - VOL +
VOL- VOL+
R3191 0
R3107 10k R3108 10k
C3108 0.01 C3109 0.01
S3102 ASX7037
J3004 D20PYY0410E
3004 51048-0400
3104 51048-0400
uCOM+5v uCOM G INPUT/L INPUT/R
IP/L IP/R
R3109 10k R3110 10k
C3110 0.01 C3111 0.01
S3103 ASX7038
N INPUT SEL ASSY (AWX7868)

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
   LMF:RD1/2LMF, MUF:RD1/4MUF
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   JQ:CEJQ
   ⊣⊢ :CKSRYB type unless otherwise noted
3. DIODES
   No marked Diodes are 1SS355.

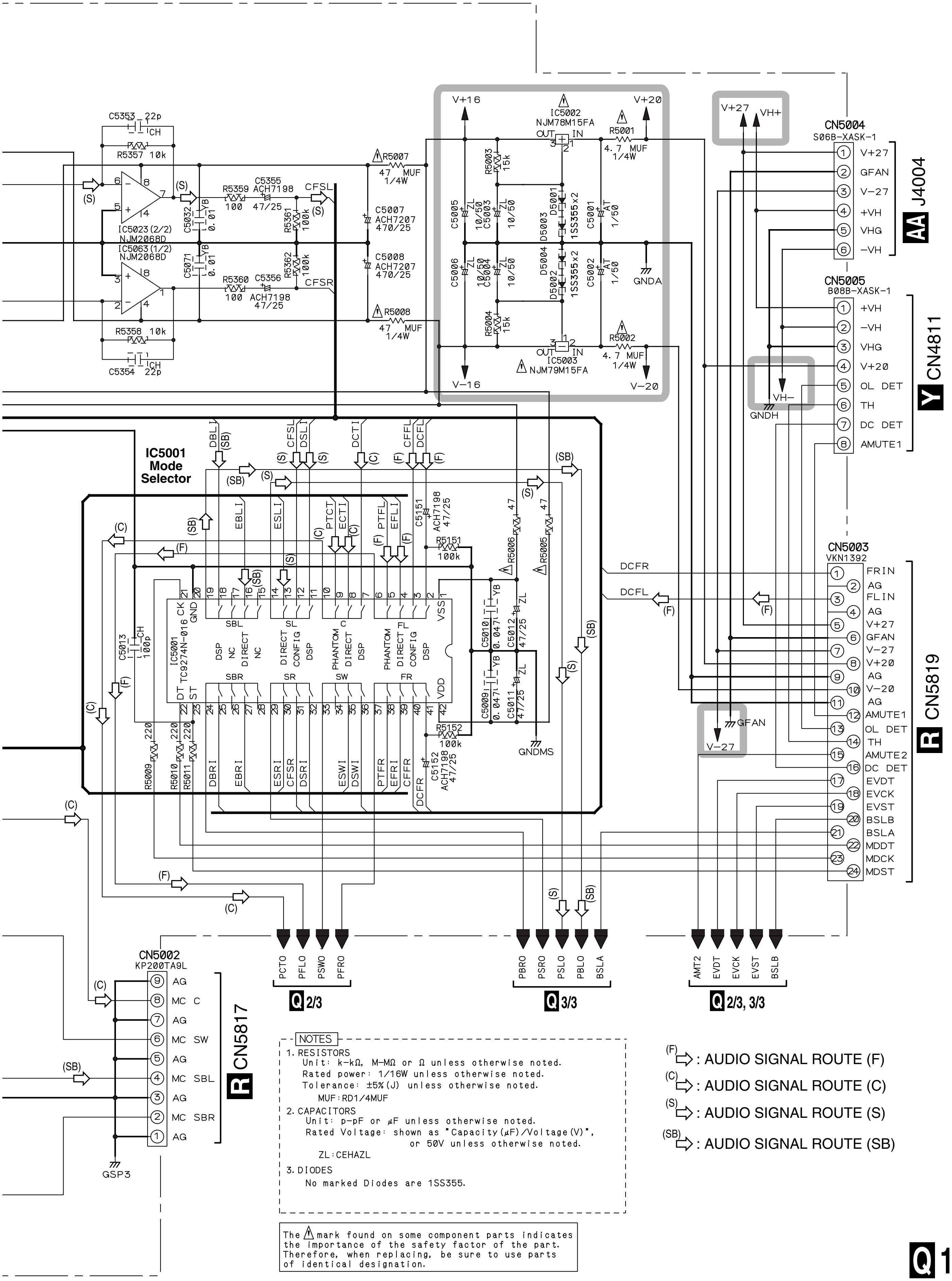
M N O P

3.14 VR & PRE OUT ASSY(1/3)


Q 1/3 VR & PRE OUT ASSY (AWX8279)
R CN5818
CN5001
VKN1395
AG
CIN
SWIN
SLIN
SRIN
SBLIN
SBRIN
EXSBRIN
EXSBLIN
EXSRIN
EXSLIN
EXSWIN
EXCIN
EXFRIN
EXFLIN
DCSW
DCSL
DCSR
DCTI
DSWI
DSLI
DSRI
DBLI
DBRI
DS
AS
EBRI
EBLI
ESRI
ESLI
ESWI
ECTI
EFRI
EFLI
(C)
(S)
(SB)
(F)
C5251 ACH7198 47/25
C5252 ACH7198 47/25
C5351 ACH7198 47/25
C5352 ACH7198 47/25
C5451 ACH7198 47/25
C5452 ACH7198 47/25
R5251 100k
R5252 100k
R5351 100k
R5352 100k
R5451 100k
R5452 100k
DCFL
DCSW
DCFR
C5153 22p CH
R5157 10k
R5153 10k
R5155 10k
R5156 10k
R5154 10k
IC5023(1/2) NJM2068D
IC5063(2/2) NJM2068D
R5158 10k
C5154 22p CH
C5031 YB 0.01
C5072 YB 0.01
R5159 100
R5160 100
C5155 ACH7198 47/25
C5156 ACH7198 47/25
R5161 100k
R5162 100k
CFFL
CFFR
DCSL
DCSW
DCSR
R5353 10k
R5355 10k
R5356 10k
R5354 10k
J5016 ADB7018
ADB7016 J5013
ADB7016 J5017
J5014 ADB7020
GNDPO
GNDSH
GNDA
R5961 0
R5962 0
R5963 0
R5964 0
R5965 0
R5966 0
R5967 0
R5968 0
R5969 0
R5970 0
PTCT
C5181 22p CH
R5187 10k
R5181 10k
R5183 2.2k
R5185 12k
IC5181(1/2) NJM2068D
Analog Phantom
R5189 10k
C5189 22p CH
R5191 10k
IC5181 (2/2)
R5193 100
C5183 ACH7198 47/25
PTFL
C5187 YB 0.01
C5188 YB 0.01
C5185 YB 0.01
C5186 YB 0.01
R5195 100k
R5196 100k
R5029 47 MUF 1/4W
C5033 ACH7207 470/25
C5034 ACH7207 470/25
R5184 2.2k
R5186 12k
IC5182 (2/2)
R5182 10k
R5188 10k
C5182 22p CH
R5190 10k
IC5182(1/2) NJM2068D
R5192 10k
C5190 22p CH
R5194 100
C5184 ACH7198 47/25
PTFR
R5030 47 MUF 1/4W
JA5001(1/2) AKB7145
C
SW
MULTI CH INPUT
C5253 220p CH
C5254 220p CH
R5253 100k
R5254 100k
R5255 220
R5256 220
C5255 ACH7196 10/50
C5256 ACH7196 10/50
R5257 100k
R5258 100k
C5257 100p CH
C5258 100p CH
R5259 22
R5260 22
R5265 27k 1%
R5266 27k 1%
C5261 100p CH
R5267 1.2k 1%
IC5043 (1/2) UPC4570C
IC5043 (2/2)
R5268 1.2k 1%
C5262 100p CH
C5051 YB 0.01
C5052 YB 0.01
R5261 100
R5262 100
C5259 ACH7211 47/35
C5260 ACH7211 47/35
R5263 470k
R5264 470k
C5053 ACH7207 470/25
C5054 ACH7207 470/25
R5049 47 MUF 1/4W
R5050 47 MUF 1/4W
C5014 0.1/16 YB
GS
JA5001(2/2)
SBL
SBR
C5453 220p CH
C5454 220p CH
R5453 100k
R5454 100k
R5455 220
R5456 220
C5455 ACH7196 10/50
C5456 ACH7196 10/50
R5457 100k
R5458 100k
C5457 100p CH
C5458 100p CH
R5459 22
R5460 22
R5465 27k 1%
R5466 27k 1%
C5461 100p CH
R5467 1.2k 1%
IC5083 (1/2) UPC4570C
IC5083 (2/2)
R5468 1.2k 1%
C5462 100p CH
C5091 YB 0.01
C5092 YB 0.01
R5461 100
R5462 100
C5459 ACH7211 47/35
C5460 ACH7211 47/35
R5463 470k
R5464 470k

A B C D E F

Q 1/3


C5353 22p CH
R5357 10k
IC5023(2/2) NJM2068D
IC5063(1/2) NJM2068D
R5358 10k
C5354 22p CH
C5032 0.01 YB
C5071 0.01 YB
R5359 100
R5360 100
C5355 ACH7198 47/25
C5356 ACH7198 47/25
R5361 100k
R5362 100k
CFSL
CFSR
R5007 47 MUF 1/4W
R5008 47 MUF 1/4W
C5007 ACH7207 470/25
C5008 ACH7207 470/25
V+16
V-16
V+20
V-20
IC5002 NJM78M15FA
IC5003 NJM79M15FA
OUT IN
R5001 4.7 MUF 1/4W
R5002 4.7 MUF 1/4W
R5003 15k
R5004 15k
C5005 ZL 10/50
C5006 ZL 10/50
C5003 ZL 10/50
C5004 ZL 10/50
D5001 1SS355x2
D5002 1SS355x2
D5003
D5004
C5001 AT 1/50
C5002 AT 1/50
GNDA
V+27
VH+
VH-
GNDH
CN5004 S06B-XASK-1
V+27 GFAN V-27 +VH VHG -VH
AA J4004
CN5005 B08B-XASK-1
+VH -VH VHG V+20 OL DET TH DC DET AMUTE1
Y CN4811
IC5001 Mode Selector
DBLI DSLI CFSL DCTI CFFL DCFL
SBL SL C FL
SBR SR SW FR
IC5001 TC9274N-016
CK GND DT ST VSS VDD
DSP NC DIRECT NC
DIRECT CONFIG DSP
PHANTOM DIRECT DSP
PHANTOM DIRECT CONFIG DSP
EBLI ESLI PTCT ECTI PTFL EFLI
C5151 ACH7198 47/25
R5151 100k
R5152 100k
C5152 ACH7198 47/25
R5006 47
R5005 47
C5010 0.047 YB
C5012 47/25 ZL
C5009 0.047 YB
C5011 47/25 ZL
GNDMS
C5013 100p CH
R5009 220
R5010 220
R5011 220
DBRI EBRI ESRI CFSR DSRI ESWI DSWI PTFR EFRI CFFR DCFR
DCFR
DCFL
CN5003 VKN1392
FRIN AG FLIN AG V+27 GFAN V-27 V+20 AG V-20 AG AMUTE1 OL DET TH AMUTE2 DC DET EVDT EVCK EVST BSLB BSLA MDDT MDCK MDST
R CN5819
GFAN
V-27
PCTO PFLO PSWO PFRO
Q 2/3
PBRO PSRO PSLO PBLO BSLA
Q 3/3
AMT2 EVDT EVCK EVST BSLB
Q 2/3, 3/3
CN5002 KP200TA9L
AG MC C AG MC SW AG MC SBL AG MC SBR AG
R CN5817
GSP3
(S) (C) (F) (SB)

NOTES

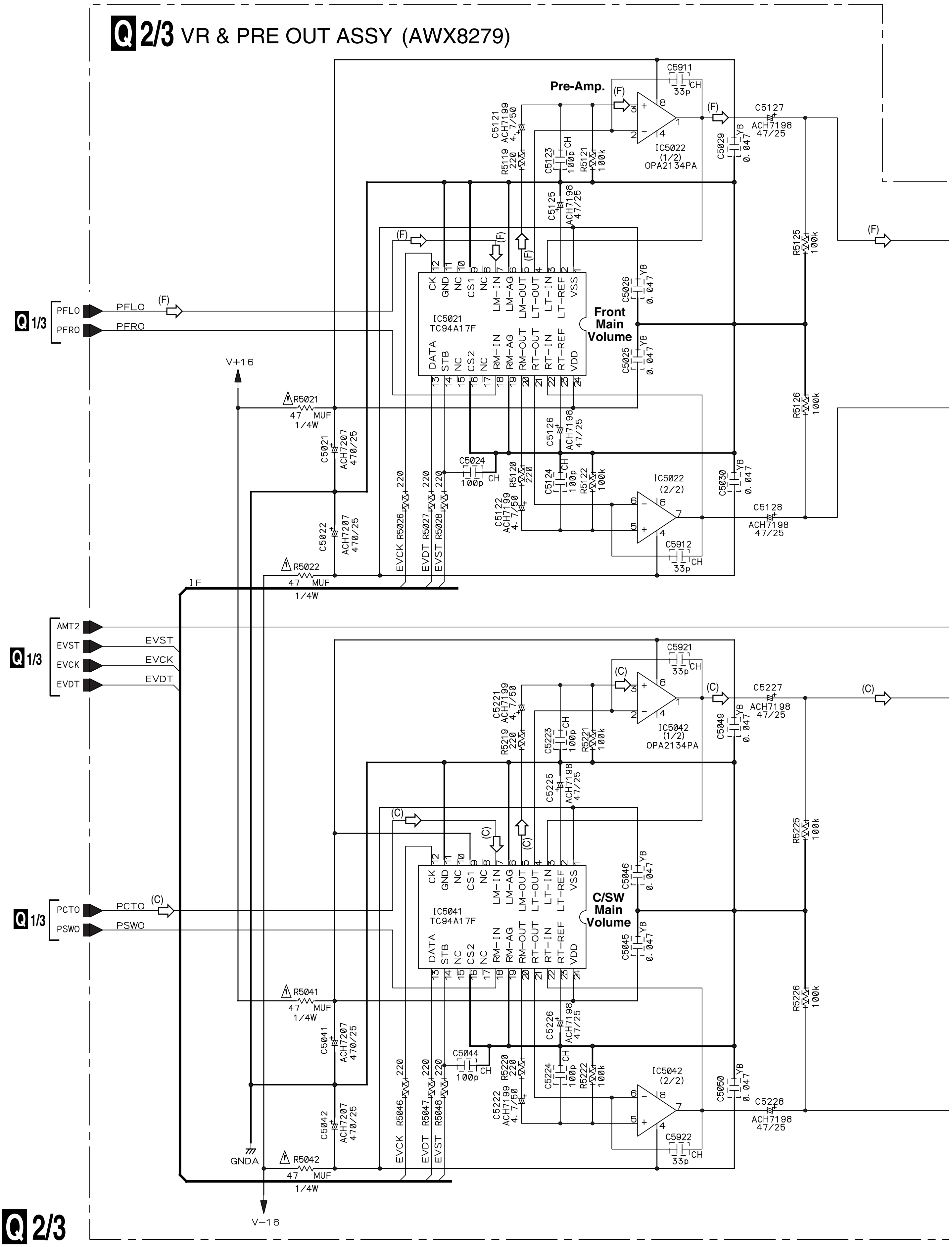
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
   MUF:RD1/4MUF
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   ZL:CEHAZL
3. DIODES
   No marked Diodes are 1SS355.

(F)⇨ : AUDIO SIGNAL ROUTE (F)
(C)⇨ : AUDIO SIGNAL ROUTE (C)
(S)⇨ : AUDIO SIGNAL ROUTE (S)
(SB)⇨ : AUDIO SIGNAL ROUTE (SB)

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Q 1/3

3.15 VR & PRE OUT ASSY(2/3)


Q 2/3 VR & PRE OUT ASSY (AWX8279)
Pre-Amp.
C5911 33p CH
IC5022 (1/2) OPA2134PA
C5121 ACH7199 4.7/50
R5119 220
C5123 100p CH
R5121 100k
C5029 0.047 YB
C5127 ACH7198 47/25
C5125 ACH7198 47/25
R5125 100k
R5126 100k
IC5021 TC94A17F
Front Main Volume
CK GND NC CS1 NC LM-IN LM-AG LM-OUT LT-OUT LT-IN LT-REF VSS
DATA STB NC CS2 NC RM-IN RM-AG RM-OUT RT-OUT RT-IN RT-REF VDD
C5026 0.047 YB
C5025 0.047 YB
PFLO
PFRO
Q 1/3
V+16
R5021 47 MUF 1/4W
C5021 ACH7207 470/25
C5022 ACH7207 470/25
C5126 ACH7198 47/25
C5024 100p CH
R5120 220
C5124 100p CH
R5122 100k
IC5022 (2/2)
C5030 0.047 YB
C5128 ACH7198 47/25
C5122 ACH7199 4.7/50
C5912 33p CH
R5026 220 EVCK
R5027 220 EVDT
R5028 220 EVST
R5022 47 MUF 1/4W
IF
AMT2
EVST
EVCK
EVDT
Q 1/3
C5921 33p CH
IC5042 (1/2) OPA2134PA
C5221 ACH7199 4.7/50
R5219 220
C5223 100p CH
R5221 100k
C5049 0.047 YB
C5227 ACH7198 47/25
C5225 ACH7198 47/25
R5225 100k
R5226 100k
IC5041 TC94A17F
C/SW Main Volume
C5046 0.047 YB
C5045 0.047 YB
PCTO
PSWO
Q 1/3
R5041 47 MUF 1/4W
C5041 ACH7207 470/25
C5042 ACH7207 470/25
C5226 ACH7198 47/25
C5044 100p CH
R5220 220
C5224 100p CH
R5222 100k
IC5042 (2/2)
C5050 0.047 YB
C5228 ACH7198 47/25
C5222 ACH7199 4.7/50
C5922 33p CH
R5046 220 EVCK
R5047 220 EVDT
R5048 220 EVST
GNDA
R5042 47 MUF 1/4W
V-16
(F)
(C)
Q 2/3

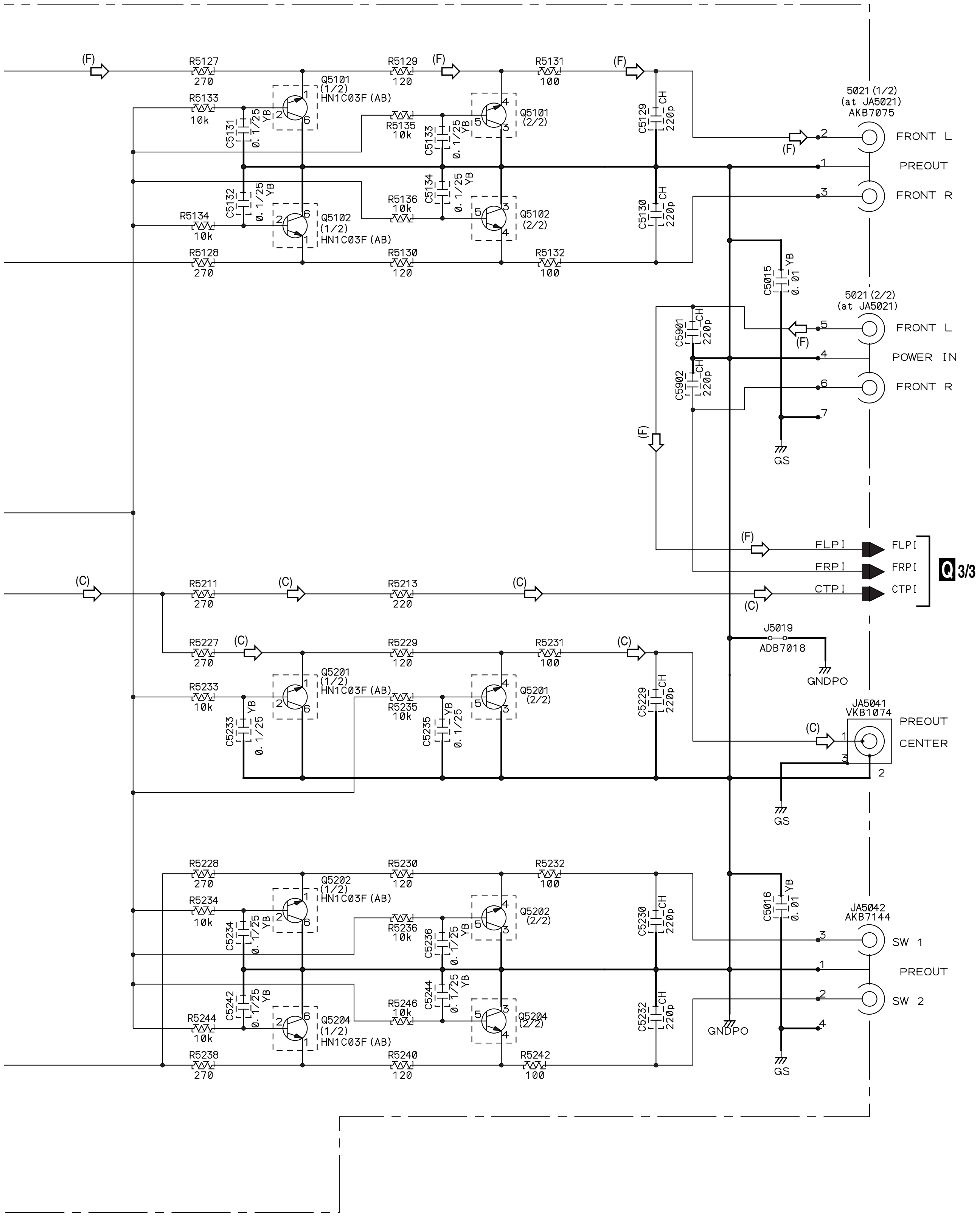
NOTES

1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
MUF:RD1/4MUF

2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)",
or 50V unless otherwise noted.
ZL:CEHAZL ZA:CEHAZA

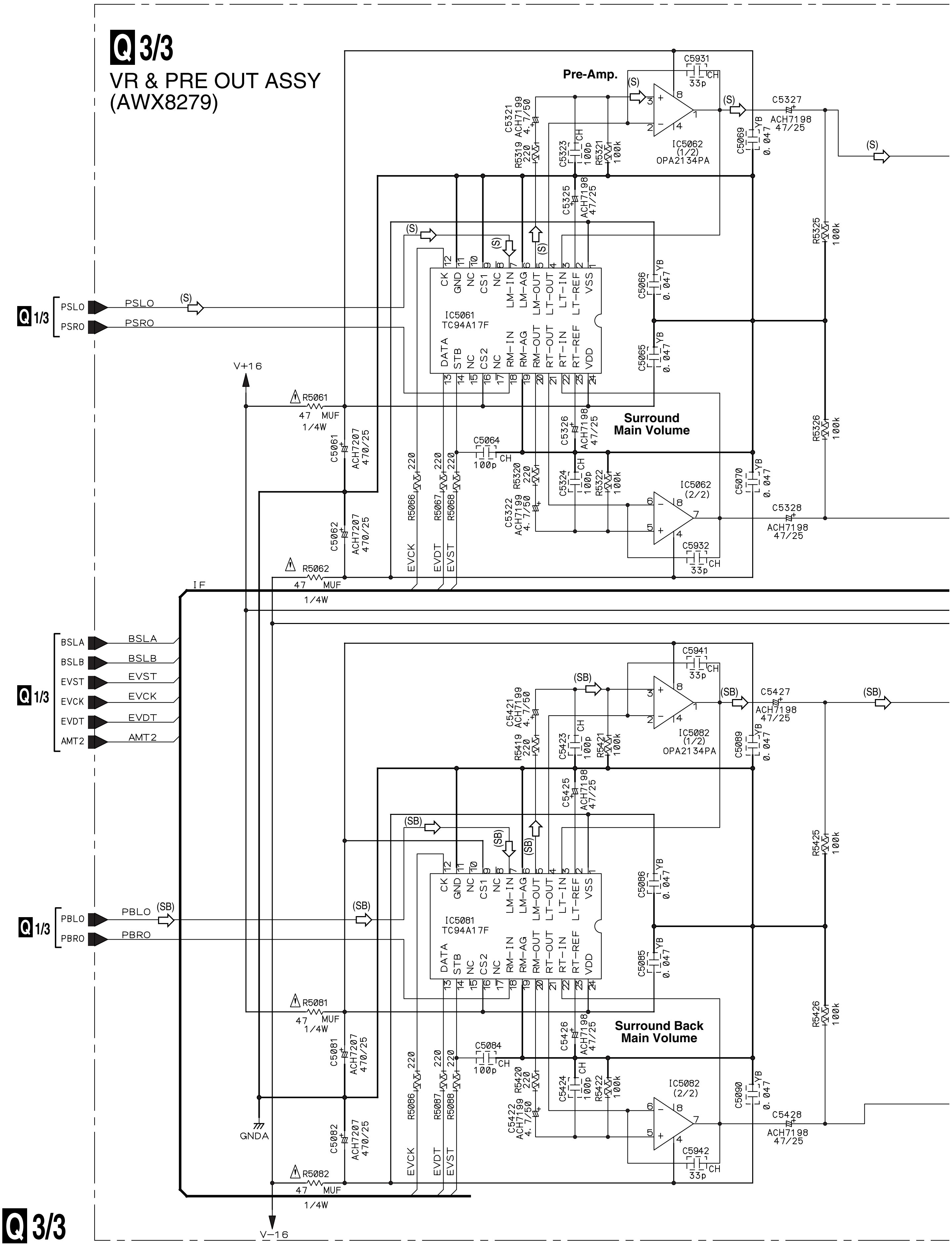
(F)⇨ : AUDIO SIGNAL ROUTE (F)
(C)⇨ : AUDIO SIGNAL ROUTE (C)

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

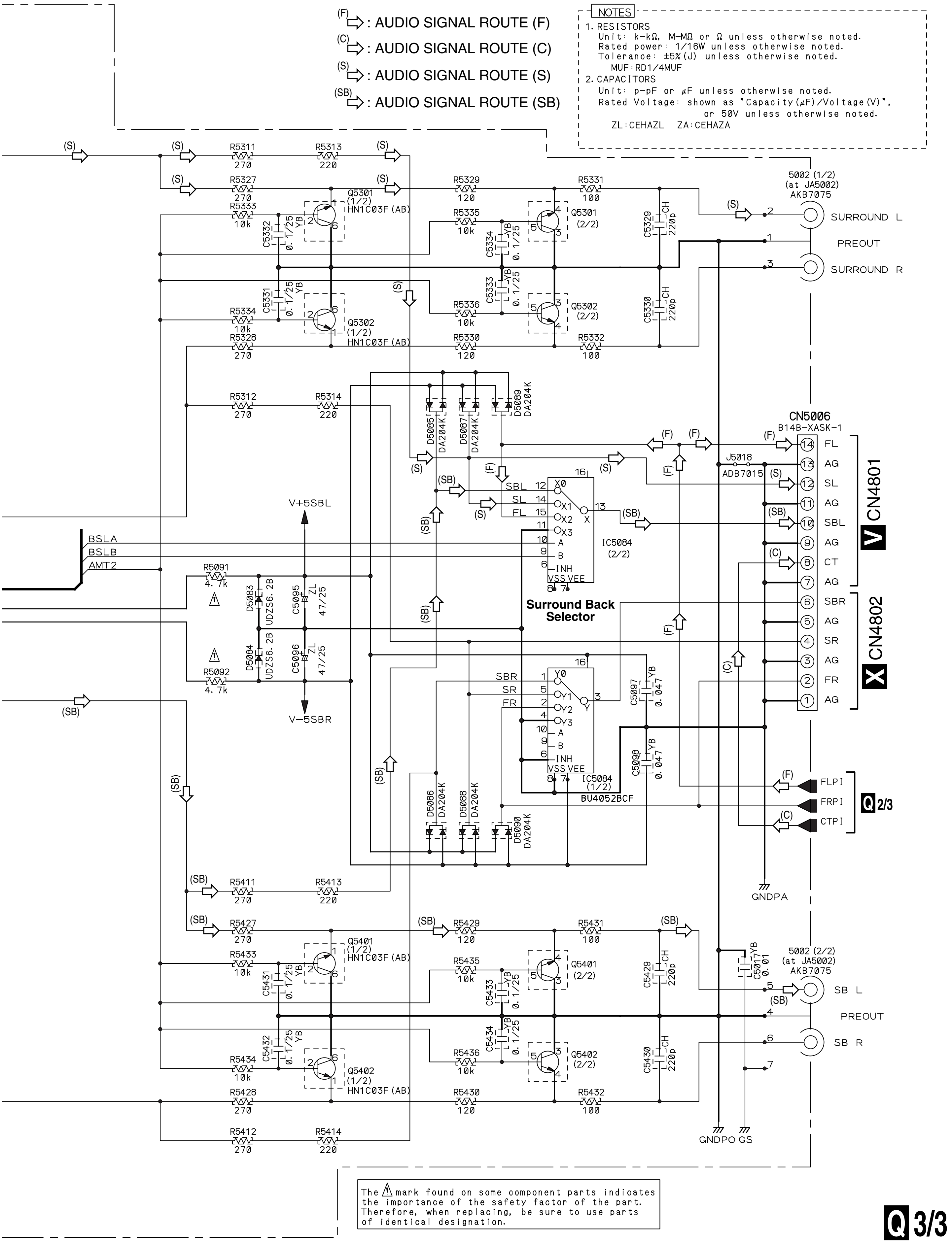


R5127 270
R5129 120
R5131 100
Q5101 (1/2) HN1C03F(AB)
Q5101 (2/2)
R5133 10k
C5131 0.1/25 YB
R5135 10k
C5133 0.1/25 YB
C5129 CH 220p
5021(1/2) (at JA5021) AKB7075
FRONT L
PREOUT
FRONT R
C5132 0.1/25 YB
C5134 0.1/25 YB
R5136 10k
Q5102 (1/2) HN1C03F(AB)
Q5102 (2/2)
C5130 CH 220p
R5134 10k
R5128 270
R5130 120
R5132 100
C5015 0.01 YB
5021(2/2) (at JA5021)
FRONT L
POWER IN
FRONT R
C5901 CH 220p
C5902 CH 220p
GS
FLPI
FRPI
CTPI
Q 3/3
R5211 270
R5213 220
J5019 ADB7018
GNDPO
R5227 270
R5229 120
R5231 100
Q5201 (1/2) HN1C03F(AB)
Q5201 (2/2)
R5233 10k
R5235 10k
C5233 0.1/25 YB
C5235 0.1/25 YB
C5229 CH 220p
JA5041 VKB1074
PREOUT
CENTER
GS
R5228 270
R5230 120
R5232 100
Q5202 (1/2) HN1C03F(AB)
Q5202 (2/2)
R5234 10k
R5236 10k
C5234 0.1/25 YB
C5236 0.1/25 YB
C5230 CH 220p
C5016 0.01 YB
JA5042 AKB7144
SW 1
PREOUT
SW 2
C5242 0.1/25 YB
C5244 0.1/25 YB
R5246 10k
Q5204 (1/2) HN1C03F(AB)
Q5204 (2/2)
C5232 CH 220p
R5244 10k
GNDPO
GS
R5238 270
R5240 120
R5242 100

3.16 VR & PRE OUT ASSY(3/3)



Q 3/3
VR & PRE OUT ASSY
(AWX8279)
Pre-Amp.
Surround
Main Volume
Surround Back
Main Volume
Q 1/3
PSLO
PSRO
BSLA
BSLB
EVST
EVCK
EVDT
AMT2
PBLO
PBRO
(S)
(SB)
IF
V+16
V-16
GNDA
IC5061
TC94A17F
IC5081
TC94A17F
CK GND NC CS1 NC LM-IN LM-AG LM-OUT LT-OUT LT-IN LT-REF VSS
DATA STB NC CS2 NC RM-IN RM-AG RM-OUT RT-OUT RT-IN RT-REF VDD
IC5062 (1/2) OPA2134PA
IC5062 (2/2)
IC5082 (1/2) OPA2134PA
IC5082 (2/2)
C5931 33p CH
C5932 33p CH
C5941 33p CH
C5942 33p CH
C5321 ACH7199 4.7/50
C5322 ACH7199 4.7/50
C5421 ACH7199 4.7/50
C5422 ACH7199 4.7/50
R5319 220
R5320 220
R5419 220
R5420 220
C5323 100p CH
C5324 100p CH
C5423 100p CH
C5424 100p CH
R5321 100k
R5322 100k
R5421 100k
R5422 100k
C5325 ACH7198 47/25
C5326 ACH7198 47/25
C5425 ACH7198 47/25
C5426 ACH7198 47/25
C5327 ACH7198 47/25
C5328 ACH7198 47/25
C5427 ACH7198 47/25
C5428 ACH7198 47/25
C5069 0.047 YB
C5070 0.047 YB
C5089 0.047 YB
C5090 0.047 YB
C5065 0.047 YB
C5066 0.047 YB
C5085 0.047 YB
C5086 0.047 YB
R5325 100k
R5326 100k
R5425 100k
R5426 100k
R5061 47 MUF 1/4W
R5062 47 MUF 1/4W
R5081 47 MUF 1/4W
R5082 47 MUF 1/4W
C5061 ACH7207 470/25
C5062 ACH7207 470/25
C5081 ACH7207 470/25
C5082 ACH7207 470/25
C5064 100p CH
C5084 100p CH
R5066 220
R5067 220
R5068 220
R5086 220
R5087 220
R5088 220
EVCK EVDT EVST


(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)
R5311 270
R5313 220
R5327 270
R5333 10k
C5332 0.1/25 YB
Q5301 (1/2) HN1C03F (AB)
R5329 120
R5335 10k
C5334 0.1/25 YB
Q5301 (2/2)
R5331 100
C5329 220p CH
5002 (1/2) (at JA5002) AKB7075
SURROUND L
PREOUT
SURROUND R
C5331 0.1/25 YB
C5333 0.1/25 YB
R5334 10k
Q5302 (1/2) HN1C03F (AB)
R5336 10k
Q5302 (2/2)
C5330 220p CH
R5328 270
R5330 120
R5332 100
R5312 270
R5314 220
D5085 DA204K
D5087 DA204K
D5089 DA204K
CN5006 B14B-XASK-1
FL AG SL AG SBL AG CT AG SBR AG SR AG FR AG
J5018 ADB7015
V CN4801
X CN4802
SBL 12 X0
SL 14 X1
FL 15 X2
11 X3
10 A
9 B
6 INH
VSS VEE 8 7
13 X
16
IC5084 (2/2)
Surround Back Selector
V+5SBL
V-5SBR
BSLA
BSLB
AMT2
R5091 4.7k
R5092 4.7k
D5083 UDZS6.2B
D5084 UDZS6.2B
C5095 47/25 ZL
C5096 47/25 ZL
SBR 1 Y0
SR 5 Y1
FR 2 Y2
4 Y3
3 Y
C5097 0.047 YB
C5098 0.047 YB
IC5084 (1/2) BU4052BCF
FLPI
FRPI
CTPI
Q 2/3
D5086 DA204K
D5088 DA204K
D5090 DA204K
GNDPA
R5411 270
R5413 220
R5427 270
R5433 10k
C5431 0.1/25 YB
Q5401 (1/2) HN1C03F (AB)
R5429 120
R5435 10k
C5433 0.1/25 YB
Q5401 (2/2)
R5431 100
C5429 220p CH
C5017 0.01 YB
5002 (2/2) (at JA5002) AKB7075
SB L
PREOUT
SB R
C5432 0.1/25 YB
C5434 0.1/25 YB
R5434 10k
Q5402 (1/2) HN1C03F (AB)
R5436 10k
Q5402 (2/2)
C5430 220p CH
R5428 270
R5430 120
R5432 100
R5412 270
R5414 220
GNDPO GS

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
   MUF:RD1/4MUF
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   ZL:CEHAZL ZA:CEHAZA

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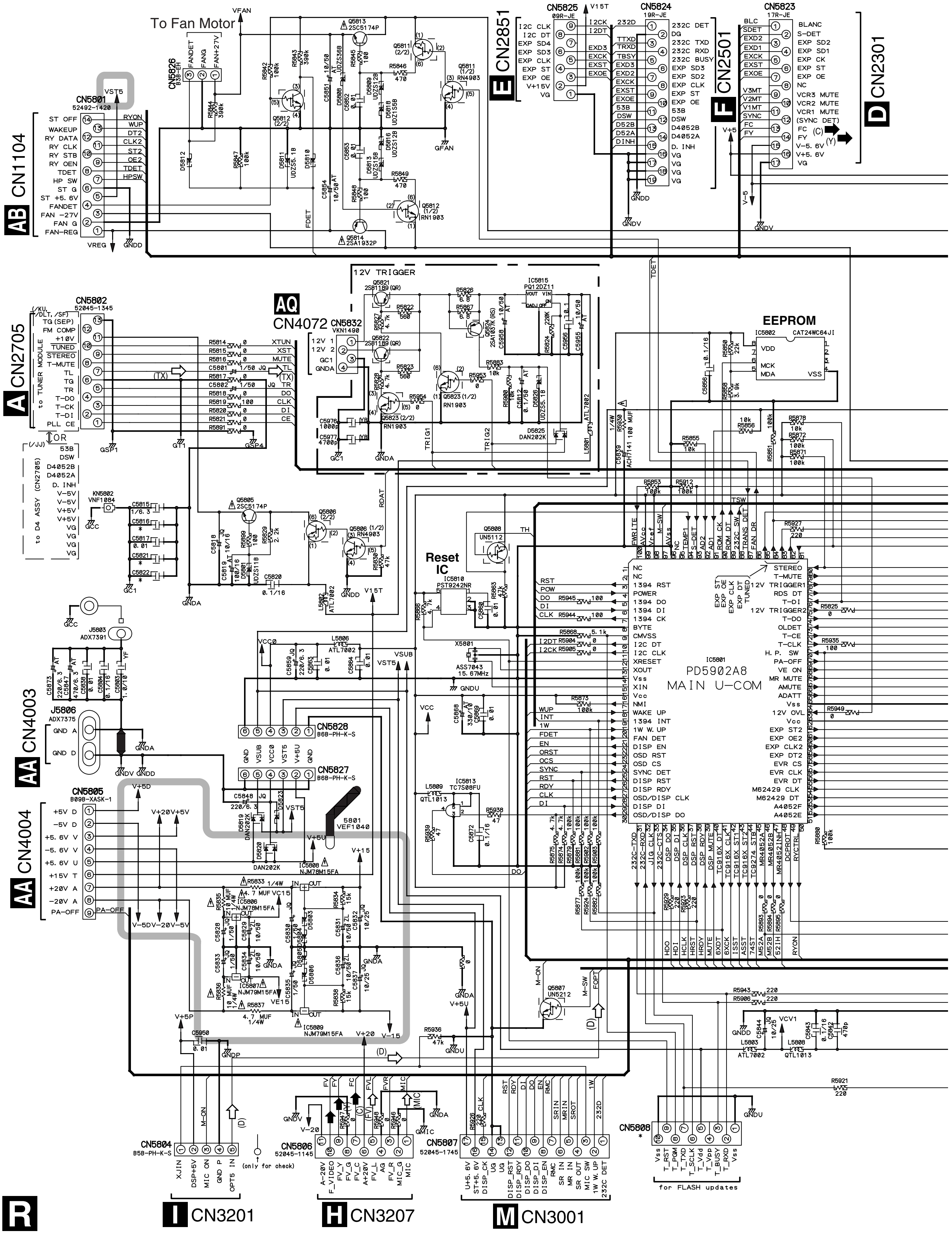
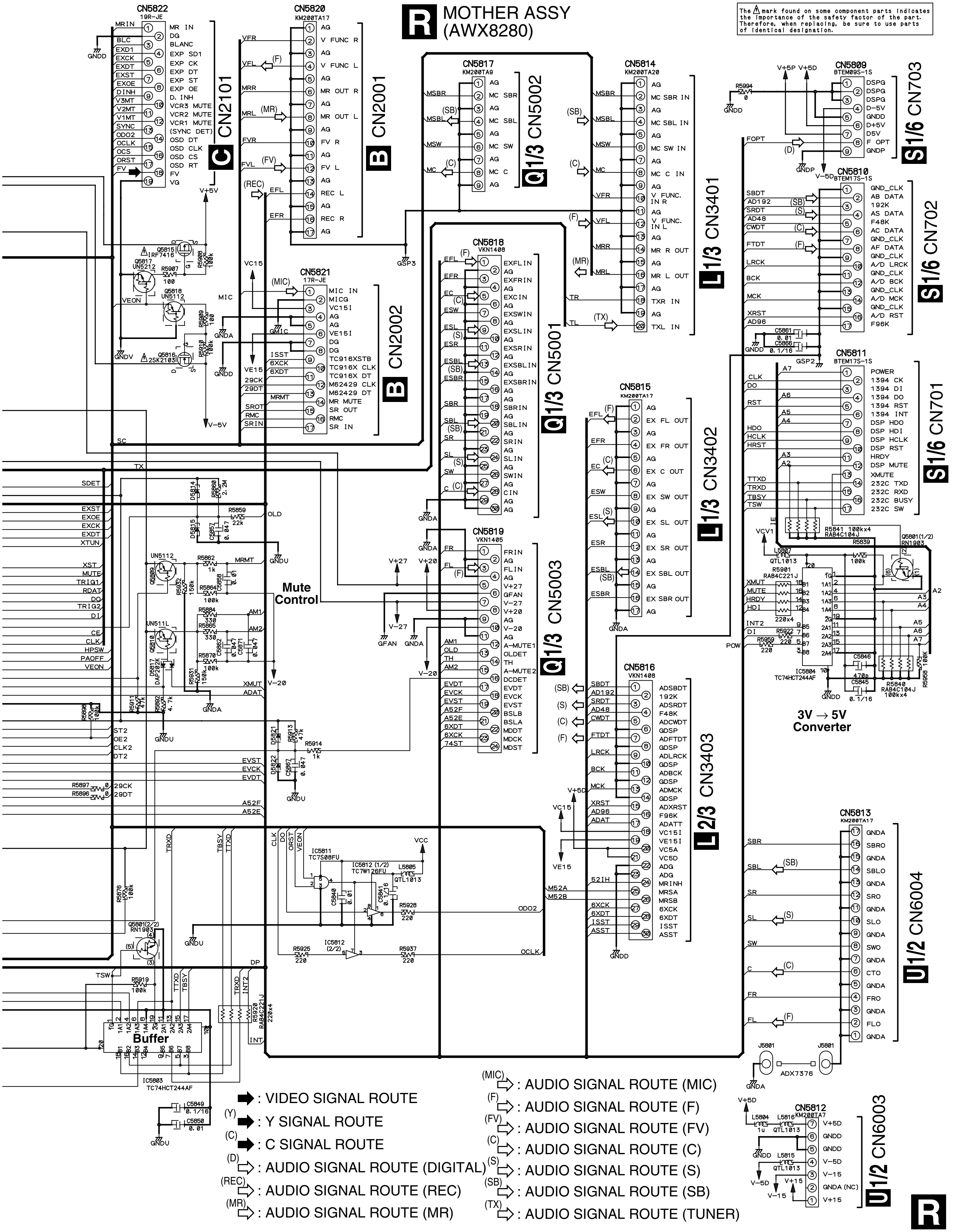
Q 3/3

3.17 MOTHER ASSY

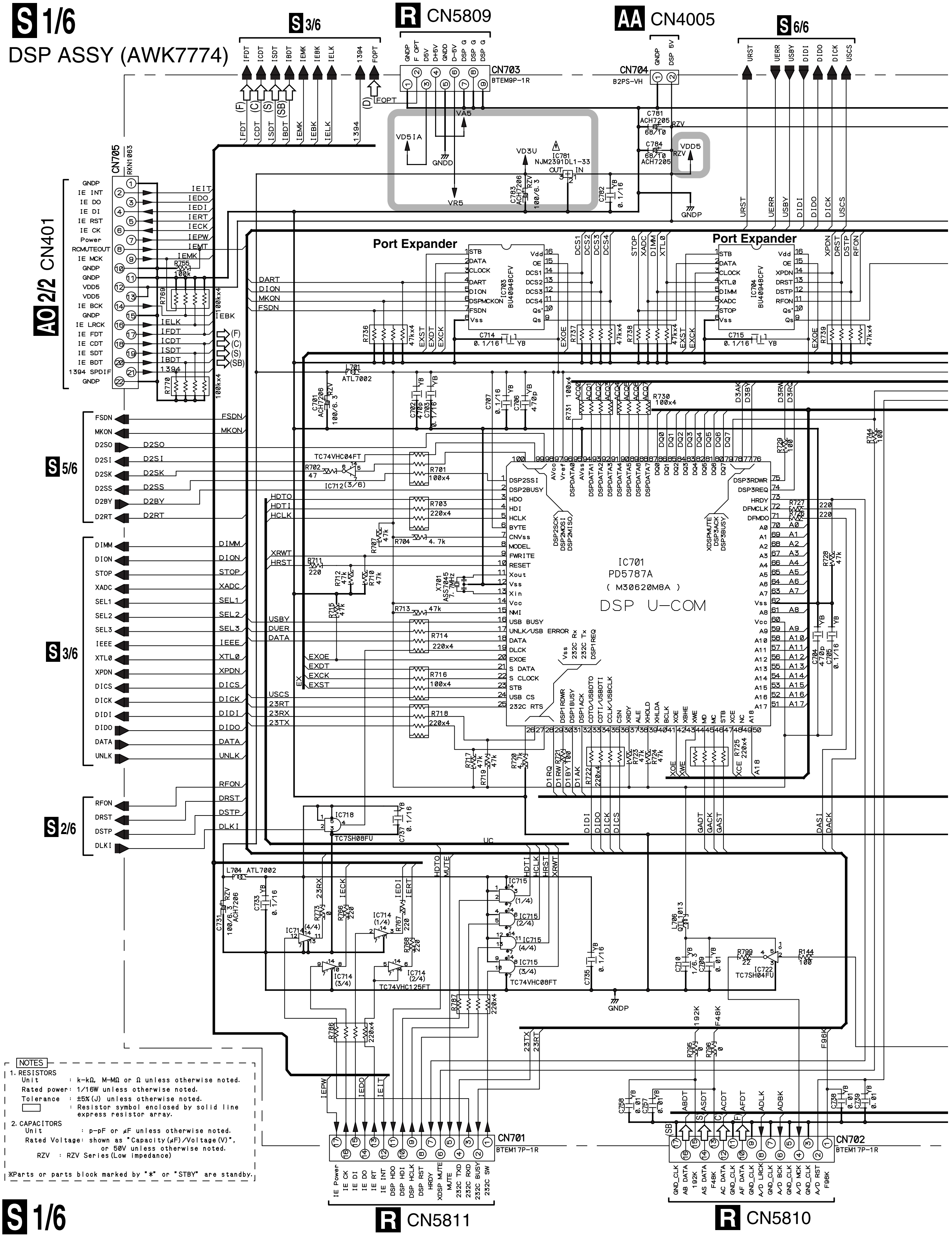

To Fan Motor
VFAN
CN5826 B3B-EH
FANDET
FANG
FAN+27V
VST5
CN5801 52492-1420
AB CN1104
ST OFF
WAKEUP
RY DATA
RY CLK
RY STB
RY OEN
TDET
HP SW
ST G
ST +5.6V
FANDET
FAN -27V
FAN G
FAN-REG
VREG
GNDD
RYON
WUP
DT2
CLK2
ST2
OE2
TDET
HPSW
Q5813 2SC5174P
Q5811 (1/2) RN4903
Q5812 (2/2)
Q5812 (1/2) RN1903
Q5814 2SA1932P
GFAN
FDET
E CN2851
CN5825 09R-JE
V15T
I2C CLK
I2C DT
EXP SD4
EXP SD3
EXP CLK
EXP ST
EXP OE
V+15V
VG
CN5824 19R-JE
232C DET
DG
232C TXD
232C RXD
232C BUSY
EXP SD3
EXP SD2
EXP CLK
EXP ST
EXP OE
53B
DSW
D4052B
D4052A
D. INH
VG
F CN2501
CN5823 17R-JE
BLANC
S-DET
EXP SD2
EXP SD1
EXP CK
EXP ST
EXP OE
NC
VCR3 MUTE
VCR2 MUTE
VCR1 MUTE
(SYNC DET)
FC
FY
V-5.6V
V+5.6V
VG
D CN2301
GNDD
GNDV
12V TRIGGER
AQ CN4072
CN5832 VKN1490
12V 1
12V 2
GC1
GNDA
Q5821 2SB1189(QR)
Q5822 2SB1189(QR)
Q5823 (2/2) RN1903
Q5823 (1/2) RN1903
Q5824 2SA1037K(RS)
IC5815 PQ12DZ11
D5825 DAN202K
TRIG1
TRIG2
CN5802 52045-1345
A CN2705
to TUNER MODULE
TG (SEP)
FM COMP
+10V
TUNED
STEREO
T-MUTE
TL
TG
TR
T-DO
T-CK
T-DI
PLL CE
XTUN
XST
MUTE
TL
TR
DO
CLK
DI
CE
(TX)
OR
53B
DSW
D4052B
D4052A
D. INH
V-5V
V-5V
V+5V
V+5V
VG
VG
VG
VG
to D4 ASSY (CN2705)
KN5802 VNF1084
GSP1
GT1
GSP4
GC1
Q5805 2SC5174P
Q5806 (2/2)
Q5806 (1/2) RN4903
GNDA
GNDD
V15T
RDAT
EEPROM
IC5802 CAT24WC64JI
VDD
MCK
MDA
VSS
Q5808 UN5112
TH
Reset IC
IC5810 PST9242NR
X5801 ASS7043 15.67MHz
GNDU
IC5801 PD5902A8 MAIN U-COM
NC
1394 RST
POWER
1394 DO
1394 DI
1394 CK
BYTE
CMVSS
I2C DT
I2C CLK
XRESET
XOUT
Vss
XIN
Vcc
NMI
WAKE UP
1394 INT
1W W. UP
FAN DET
DISP EN
OSD RST
OSD CS
SYNC DET
DISP RST
DISP RDY
OSD/DISP CLK
DISP DI
OSD/DISP DO
STEREO
T-MUTE
12V TRIGGER1
RDS DT
T-DI
12V TRIGGER2
T-DO
OLDET
T-CE
T-CLK
H. P. SW
PA-OFF
VE ON
MR MUTE
AMUTE
ADATT
Vss
12V OVL
Vcc
EXP ST2
EXP OE2
EXP CLK2
EXP DT2
EVR CS
EVR CLK
EVR DT
M62429 CLK
M62429 DT
A4052F
A4052E
AVcc
Vref
AVss
FWRITE
M-SW
TEMP1
S-DET
AD2
AD1
ROM CK
ROM DT
232C SW
TRANS DET
FAN DR
232C-TXD
232C-RXD
232C-CTS
JIG CLK
DSP DO
DSP DI
DSP CLK
DSP RST
DSP RDY
DSP MUTE
TC9162X CLK
TC9162X ST
TC9162X DT
TC9274 STB
MR4052A
MR4052B
MR4052INH
DCPROT
RYCTRL
HDO
HDI
HCLK
HRST
HRDY
MUTE
EXDT
EXCK
ISST
ASST
74ST
M52A
M52B
521H
RYON
TSW
J5803 ADX7391
J5806 ADX7375
AA CN4003
GND A
GND D
GNDA
GNDV
GNDD
CN5828 B6B-PH-K-S
CN5827 B6B-PH-K-S
GND
VSUB
VCC0
VST5
+5U
GND
VCC0
VST5
VSUB
VCC
L5806 ATL7002
CN5805 B09B-XASK-1
AA CN4004
+5V D
-5V D
+5.6V V
-5.6V V
+5.6V U
+15V T
+20V A
-20V A
PA-OFF
V+5D
V+20V+5V
V-5DV-20V-5V
5801 VEF1040
V+5U
V+15
IC5808 NJM78M15FA
IC5806 NJM78M15FA
IC5807 NJM79M15FA
IC5809 NJM79M15FA
VC15
VE15
V-15
V+20
IC5813 TC7S08FU
L5809 QTL1013
Q5807 UN5212
M-ON
M-SW
FOPT
V+5P
GNDP
CN5804 B5B-PH-K-S
XJIN
DSP+5V
MIC ON
GND P
OPT5 IN
(only for check)
CN5806 52045-1145
A-20V
F_VIDEO
FV_Y
FV_G
FV_C
A+20V
FV_L
AG
FV_R
MIC_G
MIC
CN5807 52045-1745
U+5.6V
ST+5.6V
DISP_CK
UG
UG
DISP_RST
DISP_RDY
DISP_DO
DISP_DI
DISP_EN
RMC
SR IN
MR IN
SR OUT
MIC SW
1W W.UP
232C DET
CN5808
Vss
T_RST
T_PGM
T_TXD
T_SCLK
T_Vdd
T_Vpp
T_BUSY
T_RXD
Vss
for FLASH updates
L5803 ATL7002
L5808 QTL1013
VCV1
GNDU
I CN3201
H CN3207
M CN3001
R

R MOTHER ASSY (AWX8280)

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

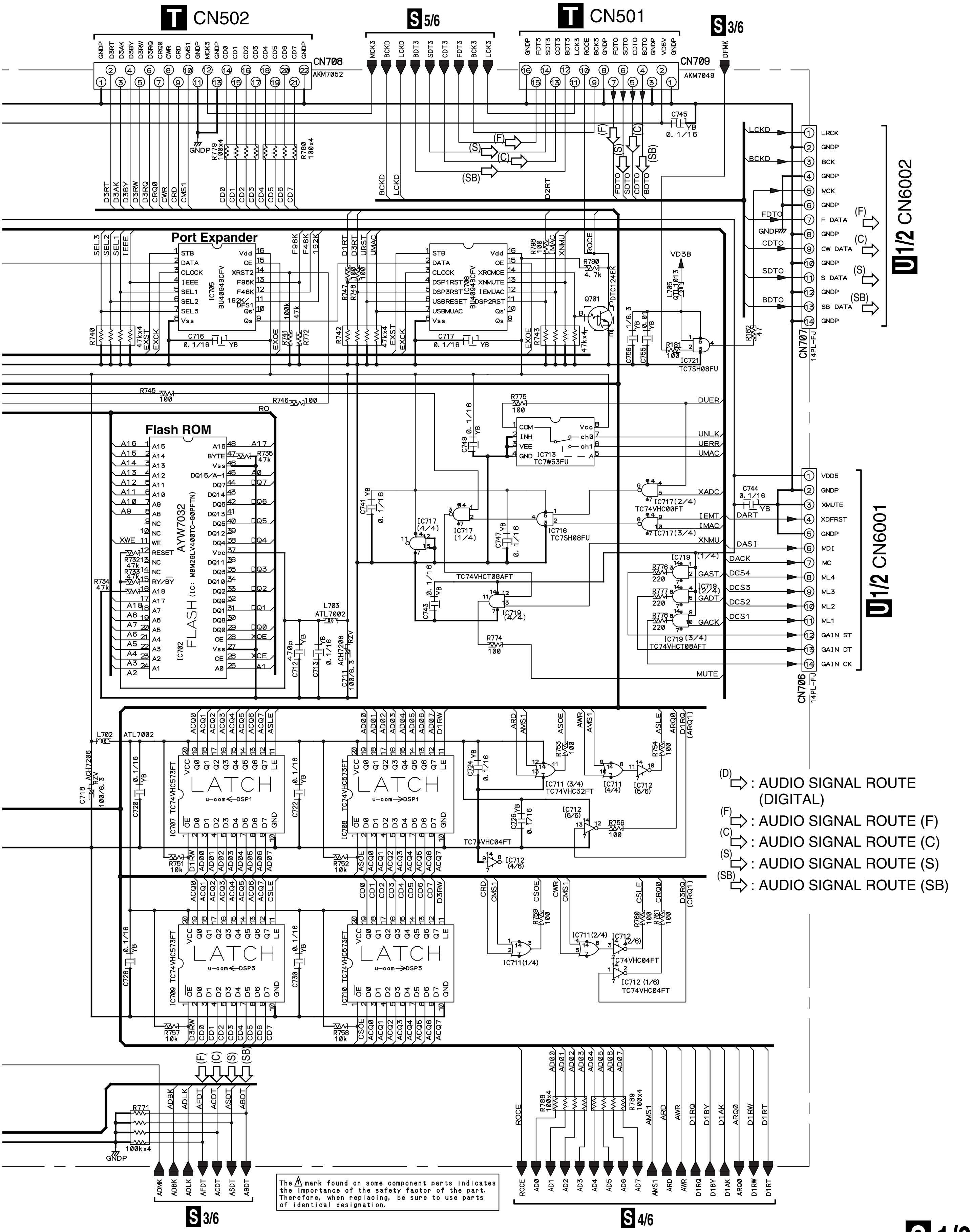

CN5822 19R-JE
C CN2101
CN5820 KM200TA17
B CN2001
CN5817 KM200TA9
Q1/3 CN5002
CN5814 KM200TA20
L1/3 CN3401
CN5809 BTEM09S-1S
S1/6 CN703
CN5810 BTEM17S-1S
S1/6 CN702
CN5811 BTEM17S-1S
S1/6 CN701
CN5821 17R-JE
B CN2002
CN5818 VKN1408
Q1/3 CN5001
CN5819 VKN1405
Q1/3 CN5003
CN5815 KM200TA17
L1/3 CN3402
CN5816 VKN1408
L2/3 CN3403
CN5813 KM200TA17
U1/2 CN6004
CN5812 KM200TA7
U1/2 CN6003
Q5815 IRF7416
Q5817 UN5212
Q5818 UN5112
Q5816 2SK2103
Mute Control
IC5811 TC7S08FU
IC5812 (1/2) TC7W126FU
IC5812 (2/2)
IC5803 TC74HCT244AF
Buffer
IC5804 TC74HCT244AF
Q5801(1/2) RN1903
Q5801(2/2) RN1903
3V → 5V Converter
J5801 ADX7376
➡ : VIDEO SIGNAL ROUTE
(Y) ➡ : Y SIGNAL ROUTE
(C) ➡ : C SIGNAL ROUTE
(D) ⇨ : AUDIO SIGNAL ROUTE (DIGITAL)
(REC) ⇨ : AUDIO SIGNAL ROUTE (REC)
(MR) ⇨ : AUDIO SIGNAL ROUTE (MR)
(MIC) ⇨ : AUDIO SIGNAL ROUTE (MIC)
(F) ⇨ : AUDIO SIGNAL ROUTE (F)
(FV) ⇨ : AUDIO SIGNAL ROUTE (FV)
(C) ⇨ : AUDIO SIGNAL ROUTE (C)
(S) ⇨ : AUDIO SIGNAL ROUTE (S)
(SB) ⇨ : AUDIO SIGNAL ROUTE (SB)
(TX) ⇨ : AUDIO SIGNAL ROUTE (TUNER)
R

3.18 DSP ASSY(1/6)


S 1/6
DSP ASSY (AWK7774)
S 3/6
R CN5809
AA CN4005
S 6/6
CN703 BTEM9P-1R
GNDP F OPT D5V D+5V GNDD D-5V DSP G DSP G DSP G
CN704 B2PS-VH
GNDP DSP 5V
URST UERR USBY DIDI DIDO DICK USCS
IFDT ICDT ISDT IBDT IEMK IEBK IELK 1394 FOPT
VD5IA VA5 VD3U VDD5 VR5 GNDD GNDP
IC781 NJM2391DL1-33
C781 ACH7205 68/10 RZV
C784 68/10 ACH7205 RZV
C783 ACH7206 100/6.3 RZV
C782 0.1/16 YB
CN705 RKN1063
AO 2/2 CN401
GNDP IE INT IE DO IE DI IE RST IE CK Power RCMUTEOUT IE MCK GNDP GNDP VDD5 VDD5 IE BCK GNDP IE LRCK IE FDT IE CDT IE SDT IE BDT 1394 SPDIF GNDP
R755 100k
R769 100kx4
R770 100kx4
Port Expander
IC703 BU4094BCFV
IC704 BU4094BCFV
STB DATA CLOCK DART DION DSPMCKON FSDN Vss Vdd OE DCS1 DCS2 DCS3 DCS4 Qs' Qs
STB DATA CLOCK XTL0 DIMM XADC STOP Vss Vdd OE XPDN DRST DSTP RFON Qs' Qs
R736 47kx4 R737 47kx4 R738 47kx4 R739 47kx4
C714 0.1/16 YB
C715 0.1/16 YB
EXST EXDT EXCK EXOE
L701 ATL7002
C701 ACH7206 100/6.3 RZV
C702 470p YB
C703 0.1/16 YB
C707 0.1/16 YB
C706 470p YB
R731 100x4
R730 100x4
IC701 PD5787A (M30620M8A) DSP U-COM
S 5/6
FSDN MKON D2SO D2SI D2SK D2SS D2BY D2RT
TC74VHC04FT
R702 47
IC712 (3/6)
R701 100x4
R703 220x4
R704 4.7k
R707 47k
R711 220
R712 47k
R710 47k
X701 ASS7045 7.1MHz
R713 47k
R715 47k
R714 220x4
R716 100x4
R718 220x4
R717 47k
R719 47k
R720 47k
R721 47k
R722 220x4
R723 47k
R724 47k
R725 220x4
R727 220
R726 220
R728 47k
R729 100
R744 100
C704 470p YB
C705 0.1/16 YB
S 3/6
DIMM DION STOP XADC SEL1 SEL2 SEL3 IEEE XTL0 XPDN DICS DICK DIDI DIDO DATA UNLK
S 2/6
RFON DRST DSTP DLKI
IC718 TC7SH08FU
C737 0.1/16 YB
L704 ATL7002
C731 100/6.3 ACH7206 RZV
C733 0.1/16 YB
IC714 (4/4) (1/4) (3/4) (2/4) TC74VHC125FT
R773 0
R766 220
R767 220
R768 220
IC715 (1/4) (2/4) (4/4) (3/4) TC74VHC08FT
C735 0.1/16 YB
L706 QTL1013
C710 1/6.3 YB
C709 0.01 YB
R799 22
R144 100
IC722 TC7SH04FU
R787 220x4
R786 220x4
R795 0
R796 0
192K F48K F96K
C758 0.01 YB
C757 0.01 YB
C738 0.01 YB
C739 0.01 YB
CN701 BTEM17P-1R
IE Power IE CK IE DI IE DO IE RT IE INT DSP HDO DSP HDI DSP HCLK DSP RST HRDY XDSP MUTE MUTE 232C TXD 232C RXD 232C BUSY 232C SW
R CN5811
CN702 BTEM17P-1R
GND_CLK AB DATA 192K AS DATA F48K AC DATA GND_CLK AF DATA GND_CLK A/D LRCK GND_CLK A/D BCK GND_CLK A/D MCK GND_CLK A/D RST F96K
R CN5810
S 1/6

NOTES
1. RESISTORS
Unit : k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance : ±5%(J) unless otherwise noted.
▭ : Resistor symbol enclosed by solid line express resistor array.
2. CAPACITORS
Unit : p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
RZV : RZV Series(Low impedance)

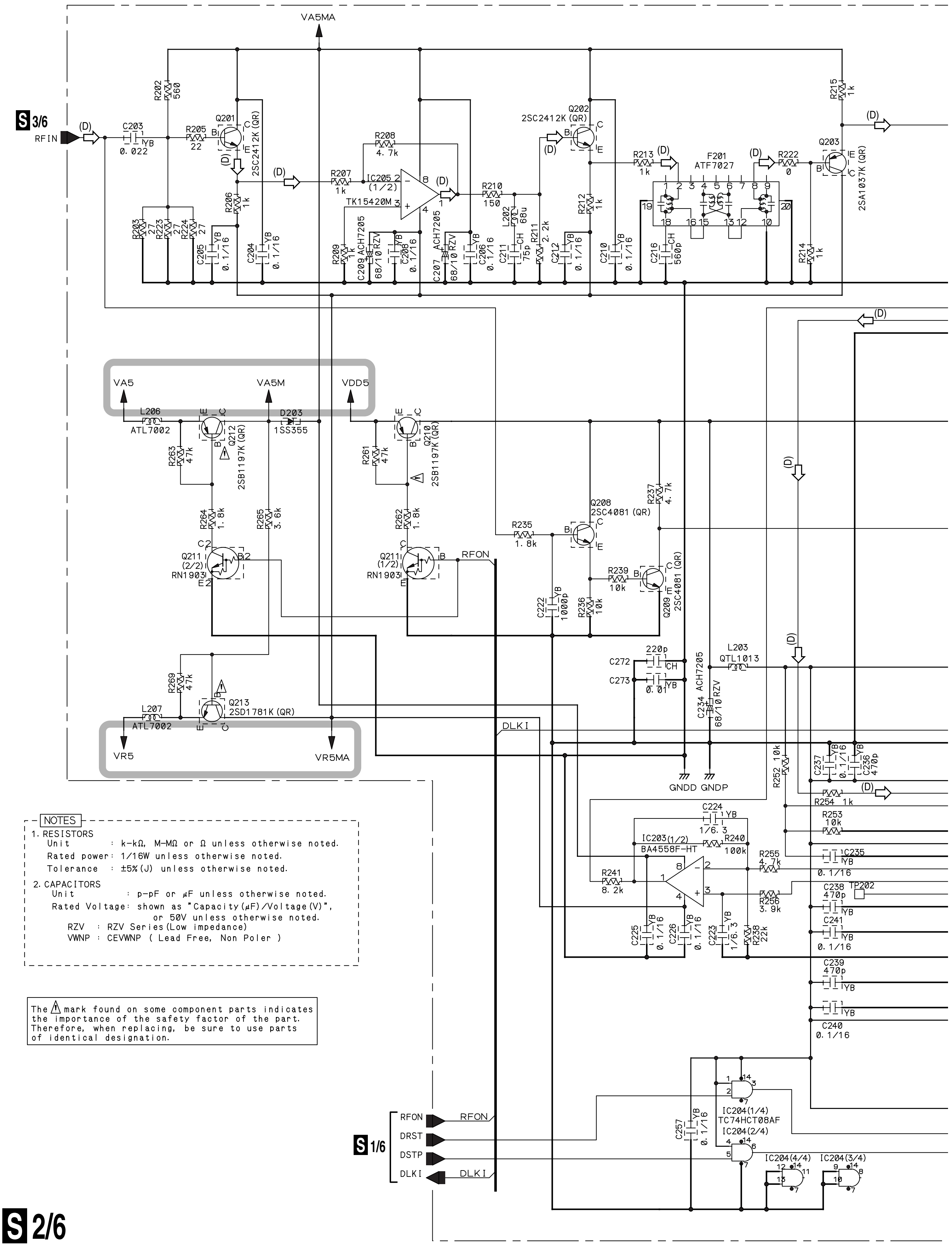
※Parts or parts block marked by "*" or "STBY" are standby.


T CN502
S 5/6
T CN501
S 3/6
CN708
AKM7052
CN709
AKM7049
GNDP D3RT D3AK D3BY D3RW D3RQ CRQ0 CWR CRD CMS1 GNDP MCK3 GNDP CD0 CD1 CD2 CD3 CD4 CD5 CD6 CD7 GNDP
MCK3 BCKD LCKD BDT3 SDT3 CDT3 FDT3 BCK3 LCK3
GNDP FDT3 SDT3 CDT3 BDT3 LCK3 ROCE BCK3 GNDP FDTO SDTO CDTO BDTO GNDP VD5V GNDP
DFMK
R779 100x4
R780 100x4
GNDP
C745 0.1/16 YB
Port Expander
IC705 BU4094BCFV
STB DATA CLOCK IEEE SEL1 SEL2 SEL3 Vss Vdd OE XRST2 F96K F48K 192K/DFS1 Qs' Qs
SEL3 SEL2 SEL1 IEEE F96K F48K 192K
D1RT D3RT URST UMAC
IC706 BU4094BCFV
STB DATA CLOCK DSP1RST DSP3RST USBRESET USBMUAC Vss Vdd OE XROMCE XNMUTE IEMUAC DSP2RST Qs' Qs
R796 100 IMAC XNMU ROCE
R790 4.7k
Q701 DTC124EK
VD3B
L705 CTF1013
C756 1/6.3 C755 0.01 YB
R181 100
IC721 TC7SH08FU
R182 47
R740 47kx4 EXST EXCK
C716 0.1/16 YB
EXOE R741 100k R772 47k
R742 47kx4 EXST EXCK
C717 0.1/16 YB
R747 R748 100 100
EXOE R743 47kx4
R745 100
R746 100
RO
Flash ROM
IC702 AYW7032 FLASH (IC: MBM29LV400TC-90PFTN)
A15 A14 A13 A12 A11 A10 A9 A8 NC NC WE RESET NC RY/BY A18 A17 A7 A6 A5 A4 A3 A2 A1
A16 BYTE Vss DQ15/A-1 DQ7 DQ14 DQ6 DQ13 DQ5 DQ12 DQ4 Vcc DQ11 DQ3 DQ10 DQ2 DQ9 DQ1 DQ8 DQ0 OE Vss CE A0
R735 47k
R732 47k
R733 47k
R734 47k
XWE XOE XCE
L703 ATL7002
C712 470p YB
C713 0.1/16 YB
C711 ACH7206 100/6.3 RZV
R775 100
IC713 TC7W53FU
COM INH VEE GND Vcc ch0 ch1 A
C749 0.1/16 YB
DUER UNLK UERR UMAC
LCKD BCKD FDTO GNDP CDTO SDTO BDTO
CN707 14PL-FJ
LRCK GNDP BCK GNDP MCK GNDP F DATA GNDP CW DATA GNDP S DATA GNDP SB DATA GNDP
(F) (C) (S) (SB)
U 1/2 CN6002
C741 0.1/16 YB
IC717 (4/4)
IC717 (1/4)
C747 0.1/16 YB
IC716 TC7SH08FU
IC717 (2/4) TC74VHC00FT
IC717 (3/4)
XADC IEMT IMAC XNMU
C744 0.1/16 YB
DART DASI DACK DCS4 DCS3 DCS2 DCS1
C743 0.1/16 YB
TC74VHCT08AFT
IC718 (4/4)
R774 100
IC719 (1/4) GAST
IC719 (2/4) GADT
IC719 (3/4) TC74VHCT08AFT
GACK
R776 220 R777 220 R778 220
MUTE
CN706 14PL-FJ
VDD5 GNDP XMUTE XDFRST GNDP MDI MC ML4 ML3 ML2 ML1 GAIN ST GAIN DT GAIN CK
U 1/2 CN6001
L702 ATL7002
C718 ACH7206 100/6.3 RZV
C720 0.1/16 YB
IC707 TC74VHC573FT LATCH u-com←DSP1
ACQ0 ACQ1 ACQ2 ACQ3 ACQ4 ACQ5 ACQ6 ACQ7 ASLE
VCC Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7 LE OE D0 D1 D2 D3 D4 D5 D6 D7 GND
D1RW AD00 AD01 AD02 AD03 AD04 AD05 AD06 AD07
R751 10k
C722 0.1/16 YB
IC708 TC74VHC573FT LATCH u-com→DSP1
AD00 AD01 AD02 AD03 AD04 AD05 AD06 AD07 D1RW
ASOE ACQ0 ACQ1 ACQ2 ACQ3 ACQ4 ACQ5 ACQ6 ACQ7
R752 10k
ARD AMS1 ASOE R753 100
AWR AMS1 ASLE R754 100 ARQ0 D1RQ (ARQ1)
C724 0.1/16 YB
IC711 (3/4) TC74VHC32FT
IC711 (4/4)
IC712 (5/6)
C726 0.1/16 YB
IC712 (6/6)
R756 100
TC74VHC04FT
IC712 (4/6)
C728 0.1/16 YB
IC709 TC74VHC573FT LATCH u-com←DSP3
ACQ0 ACQ1 ACQ2 ACQ3 ACQ4 ACQ5 ACQ6 ACQ7 CSLE
D3RW CD0 CD1 CD2 CD3 CD4 CD5 CD6 CD7
R757 10k
C730 0.1/16 YB
IC710 TC74VHC573FT LATCH u-com→DSP3
CD0 CD1 CD2 CD3 CD4 CD5 CD6 CD7 D3RW
CSOE ACQ0 ACQ1 ACQ2 ACQ3 ACQ4 ACQ5 ACQ6 ACQ7
R758 10k
CRD CMS1 CSOE R759 100
CWR CMS1 CSLE CRQ0 R760 100 R761 100 D3RQ (CRQ1)
IC711 (1/4)
IC711 (2/4)
IC712 (2/6) TC74VHC04FT
IC712 (1/6) TC74VHC04FT
(F) (C) (S) (SB)
ADBK ADLK AFDT ACDT ASDT ABDT
R771 100kx4
GNDP
ROCE R788 100x4 AD00 AD01 AD02 AD03 AD04 AD05 AD06 AD07 R789 100x4 AMS1 ARD AWR D1BY D1AK ARQ0 D1RW D1RT
ADMK ADBK ADLK AFDT ACDT ASDT ABDT
ROCE AD0 AD1 AD2 AD3 AD4 AD5 AD6 AD7 AMS1 ARD AWR D1RQ D1BY D1AK ARQ0 D1RW D1RT
S 3/6
S 4/6
(D) : AUDIO SIGNAL ROUTE (DIGITAL)
(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)
A B C D E F

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

S 1/6

3.19 DSP ASSY(2/6)


A
B
C
D
E
F
S 3/6
RFIN
(D)
VA5MA
C203 YB 0.022
R202 560
R205 22
Q201 2SC2412K (QR)
B C E
R206 1k
R203 27
R223 27
R224 27
C205 YB 0.1/16
C204 YB 0.1/16
R207 1k
R208 4.7k
IC205 (1/2) TK15420M
R209 1k
C209 ACH7205 68/10 RZV
C208 YB 0.1/16
C207 ACH7205 68/10 RZV
C206 YB 0.1/16
R210 150
L202 68u
C211 CH 75p
R211 2.2k
C212 YB 0.1/16
Q202 2SC2412K (QR)
R212 1k
R213 1k
C210 YB 0.1/16
F201 ATF7027
C216 CH 560p
R222 0
R215 1k
Q203 2SA1037K (QR)
R214 1k
VA5
VA5M
VDD5
L206 ATL7002
Q212 2SB1197K (QR)
D203 1SS355
R263 47k
Q210 2SB1197K (QR)
R261 47k
R264 1.8k
R265 3.6k
R262 1.8k
Q211 (2/2) RN1903
Q211 (1/2) RN1903
RFON
Q208 2SC4081 (QR)
R235 1.8k
R237 4.7k
R239 10k
Q209 2SC4081 (QR)
C222 YB 1000p
R236 10k
R269 47k
L207 ATL7002
Q213 2SD1781K (QR)
VR5
VR5MA
DLKI
C272 220p CH
C273 0.01 YB
C234 ACH7205 68/10 RZV
L203 QTL1013
GNDD GNDP
R252 10k
C237 YB 0.1/16
C236 YB 470p
R254 1k
C224 YB 1/6.3
R253 10k
IC203(1/2) BA4558F-HT
R240 100k
R255 4.7k
C235 YB 0.1/16
R241 8.2k
R256 3.9k
C238 470p YB
TP202
C225 YB 0.1/16
C226 YB 0.1/16
C223 YB 1/6.3
R238 22k
C241 YB 0.1/16
C239 470p YB
C240 YB 0.1/16
C257 YB 0.1/16
IC204(1/4) TC74HCT08AF
IC204(2/4)
IC204(4/4)
IC204(3/4)
S 1/6
RFON
DRST
DSTP
DLKI

NOTES
1. RESISTORS
   Unit : k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance : ±5%(J) unless otherwise noted.
2. CAPACITORS
   Unit : p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   RZV : RZV Series(Low impedance)
   VWNP : CEVWNP (Lead Free, Non Poler)

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

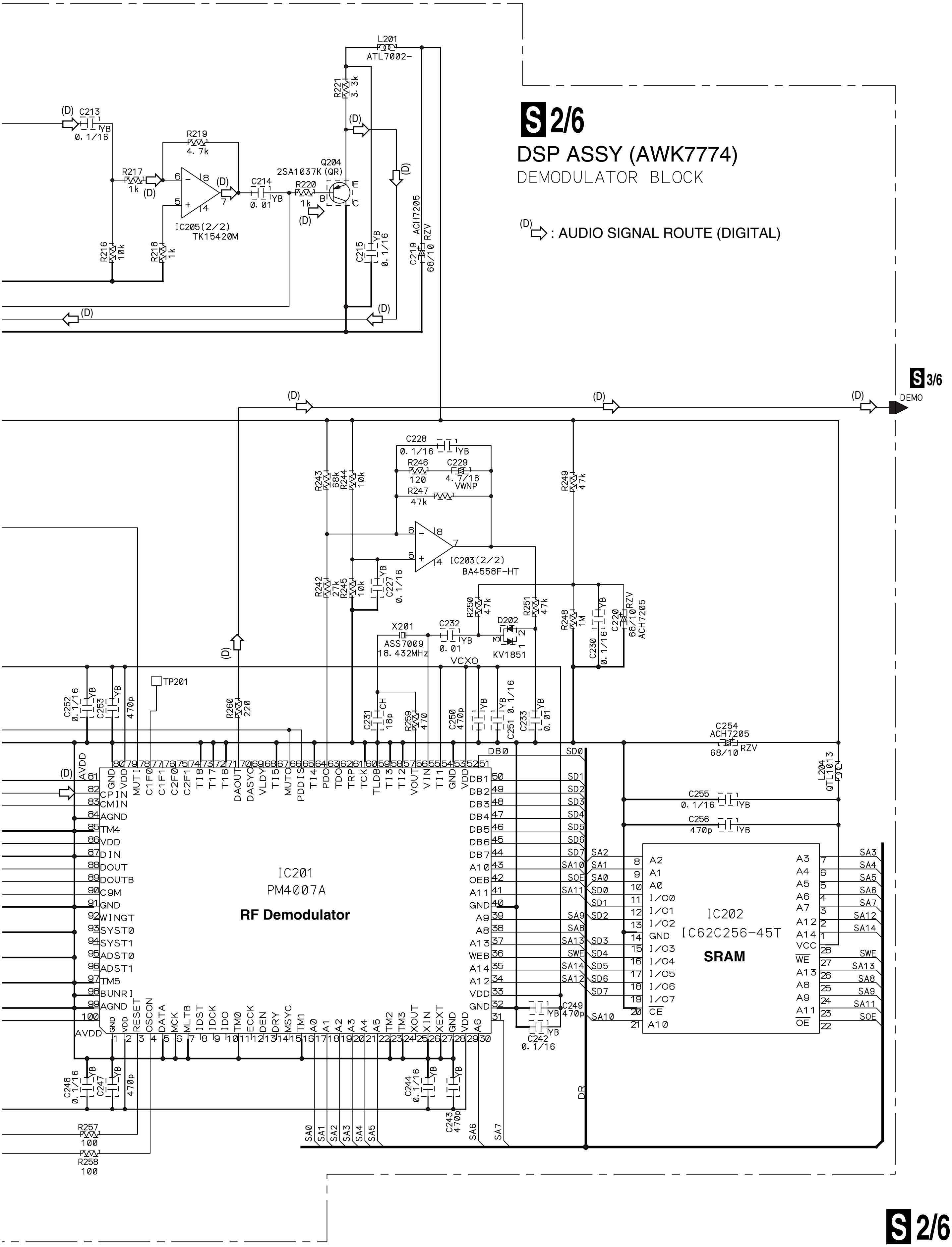
S 2/6

S 2/6

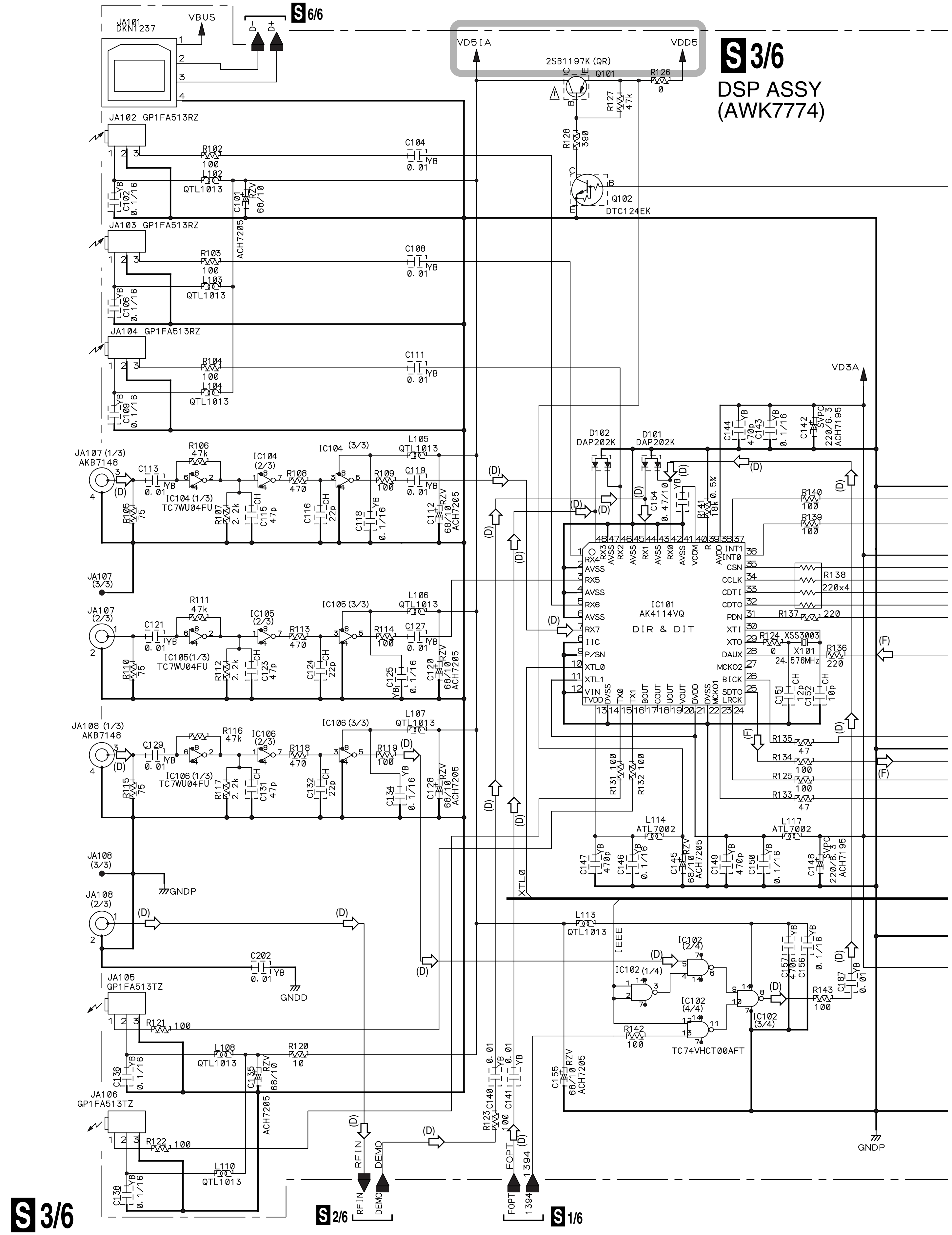
DSP ASSY (AWK7774)

DEMODULATOR BLOCK

(D) ⇨ : AUDIO SIGNAL ROUTE (DIGITAL)


L201
ATL7002-
R221 3.3k
C213 0.1/16 YB
R219 4.7k
R217 1k
Q204
2SA1037K (QR)
C214 0.01 YB
R220 1k
IC205(2/2)
TK15420M
R216 10k
R218 1k
C215 0.1/16 YB
C219 68/10 RZV ACH7205
S 3/6
DEMO
C228 0.1/16 YB
R246 120
C229 4.7/16 VWNP
R247 47k
R243 68k
R244 10k
R249 47k
IC203(2/2)
BA4558F-HT
R242 27k
R245 10k
C227 0.1/16 YB
R250 47k
R251 47k
D202
KV1851
R248 1M
C230 0.1/16 YB
C220 68/10 RZV ACH7205
X201
ASS7009
18.432MHz
C232 0.01 YB
VCXO
TP201
C252 0.1/16 YB
C253 470p YB
R260 220
C231 18p CH
R259 470
C250 470p YB
C251 0.1/16 YB
C233 0.01 YB
C254 ACH7205 68/10 RZV
L204 QTL1013
C255 0.1/16 YB
C256 470p YB
IC201
PM4007A
RF Demodulator
IC202
IC62C256-45T
SRAM
C249 470p YB
C242 0.1/16 YB
C248 0.1/16 YB
C247 470p YB
C244 0.1/16 YB
C243 470p YB
R257 100
R258 100
DB
DB0
SD0
AVDD
CPIN
CMIN
AGND
TM4
VDD
DIN
DOUT
DOUTB
C9M
GND
WINGT
SYST0
SYST1
ADST0
ADST1
TM5
BUNRI
MUTI
C1F0
C1F1
C2F0
C2F1
TI8
TI7
TI6
DAOUT
DASYC
VLDY
TI5
MUTO
PDDIS
TI4
PDO
TDO
TRP
TCK
TLDB
TI3
TI2
VOUT
VIN
TI1
RESET
OSCON
DATA
MCK
MLTB
IDST
IDCK
IDO
TM0
ECCK
DEN
DRY
MSYC
TM1
A0
A1
A2
A3
A4
A5
TM2
TM3
XOUT
XIN
XEXT
A6
DB1
DB2
DB3
DB4
DB5
DB6
DB7
A10
OEB
A11
A9
A8
A13
WEB
A14
A12
I/O0
I/O1
I/O2
I/O3
I/O4
I/O5
I/O6
I/O7
CE
VCC
WE
OE
SA0
SA1
SA2
SA3
SA4
SA5
SA6
SA7
SA8
SA9
SA10
SA11
SA12
SA13
SA14
SOE
SWE
SD1
SD2
SD3
SD4
SD5
SD6
SD7
(D)

3.20 DSP ASSY(3/6)

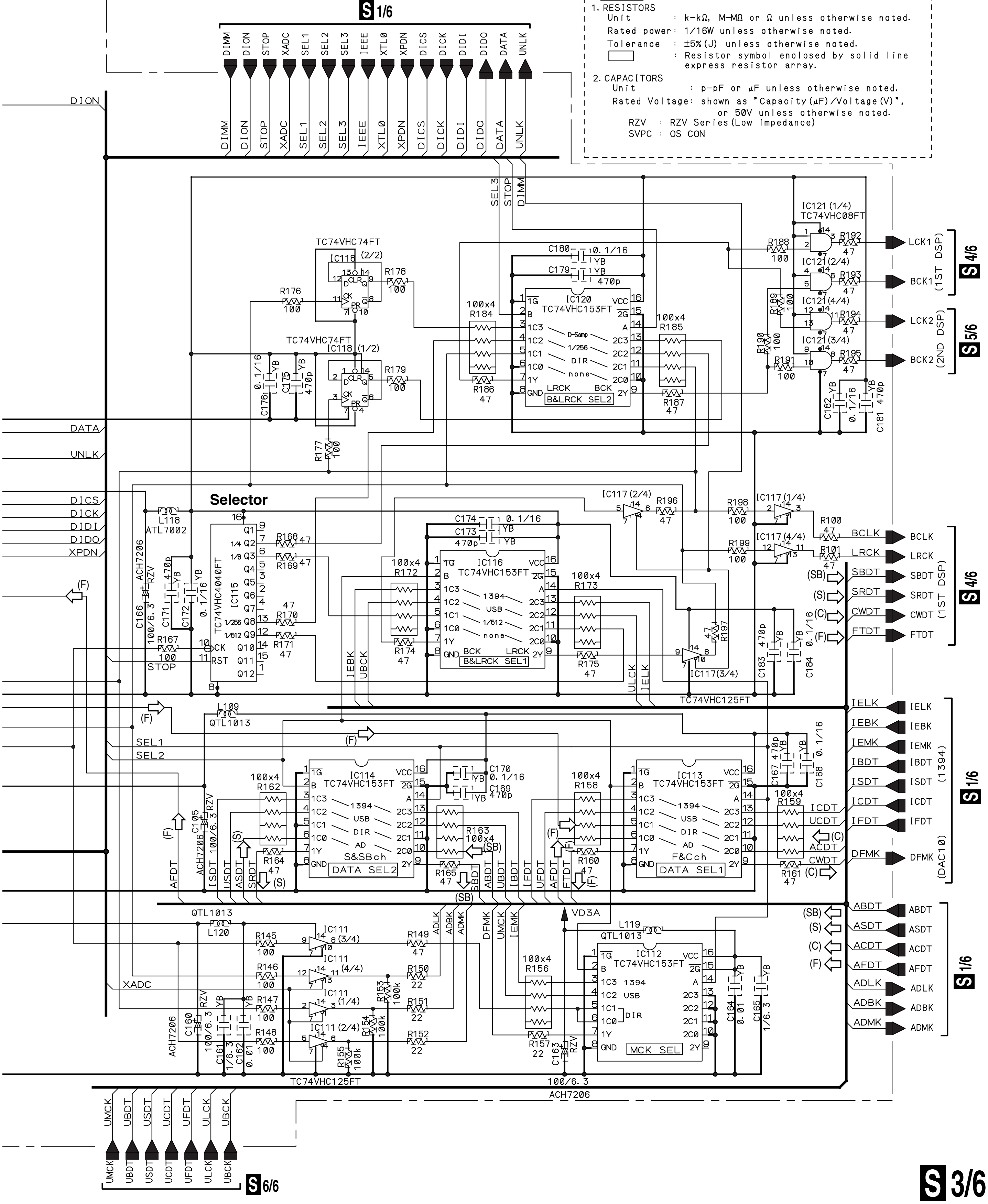

A
B
C
D
E
F
S 6/6
JA101
DKN1237
VBUS
D−
D+
VD5IA
VDD5
S 3/6
DSP ASSY
(AWK7774)
2SB1197K (QR)
Q101
R126
0
R127
47k
R128
390
Q102
DTC124EK
JA102 GP1FA513RZ
R102
100
L102
QTL1013
C104
0.01
YB
C102
0.1/16
C101
RZV
68/10
ACH7205
JA103 GP1FA513RZ
R103
100
L103
QTL1013
C108
0.01
C106
0.1/16
JA104 GP1FA513RZ
R104
100
L104
QTL1013
C111
0.01
C109
0.1/16
VD3A
JA107 (1/3)
AKB7148
C113
0.01
R106
47k
IC104 (1/3)
TC7WU04FU
IC104 (2/3)
R108
470
IC104 (3/3)
L105
QTL1013
R109
100
C119
0.01
R105
75
R107
2.2k
C115
47p
C116
22p
C118
0.1/16
C112
68/10
ACH7205
JA107 (3/3)
JA107 (2/3)
C121
0.01
R111
47k
IC105(1/3)
TC7WU04FU
IC105 (2/3)
R113
470
IC105 (3/3)
L106
QTL1013
R114
100
C127
0.01
R110
75
R112
2.2k
C123
47p
C124
22p
C125
0.1/16
C120
68/10
ACH7205
JA108 (1/3)
AKB7148
C129
0.01
R116
47k
IC106 (1/3)
TC7WU04FU
IC106 (2/3)
R118
470
IC106 (3/3)
L107
QTL1013
R119
100
R115
75
R117
2.2k
C131
47p
C132
22p
C134
0.1/16
C128
68/10
ACH7205
JA108 (3/3)
GNDP
JA108 (2/3)
C202
0.01
GNDD
JA105
GP1FA513TZ
R121 100
L108
QTL1013
R120
10
C136
0.1/16
C135
68/10
ACH7205
JA106
GP1FA513TZ
R122 100
L110
QTL1013
C138
0.1/16
S 3/6
D102
DAP202K
D101
DAP202K
C154
0.47/10
R141
18k 0.5%
C144
470p
C143
0.1/16
C142
SVPC
220/6.3
ACH7195
R140
100
R139
100
IC101
AK4114VQ
DIR & DIT
RX4
AVSS
RX5
AVSS
RX6
AVSS
RX7
IIC
P/SN
XTL0
XTL1
VIN
TVDD
DVSS
TX0
TX1
BOUT
COUT
UOUT
VOUT
DVDD
DVSS
MCKO1
LRCK
SDTO
BICK
MCKO2
DAUX
XTO
XTI
PDN
CDTO
CDTI
CCLK
CSN
INT0
INT1
AVDD
R
VCOM
RX0
RX1
RX2
RX3
R138
220x4
R137 220
R124 0
XSS3003
X101
24.576MHz
R136
220
C151
12p
C152
10p
R135
47
R134
100
R125
100
R133
47
R131 100
R132 100
L114
ATL7002
L117
ATL7002
C147
470p
C146
0.1/16
C145
68/10
ACH7205
C149
470p
C150
0.1/16
C148
SVPC
220/6.3
ACH7195
XTL0
L113
QTL1013
IEEE
IC102 (1/4)
IC102 (2/4)
IC102 (4/4)
IC102 (3/4)
R142
100
TC74VHCT00AFT
C157
470p
C156
0.1/16
C187
0.01
R143
100
C155
68/10
ACH7205
C140
0.01
C141
0.01
R123
100
GNDP
(D)
(F)
RFIN
DEMO
FOPT
1394
S 2/6
S 1/6

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

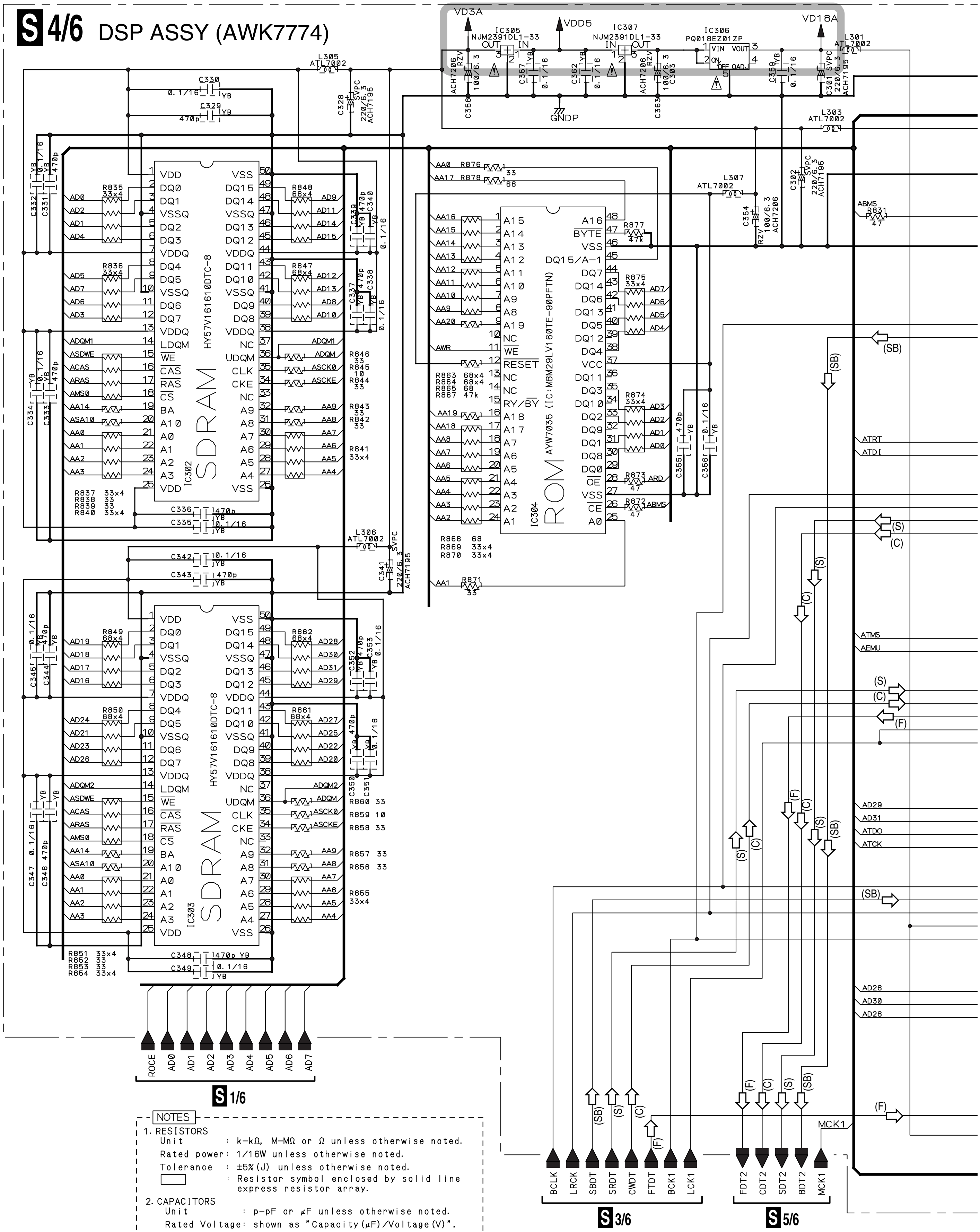
(D)⇨ : AUDIO SIGNAL ROUTE (DIGITAL)
(F)⇨ : AUDIO SIGNAL ROUTE (F)
(C)⇨ : AUDIO SIGNAL ROUTE (C)
(S)⇨ : AUDIO SIGNAL ROUTE (S)
(SB)⇨ : AUDIO SIGNAL ROUTE (SB)

NOTES

1. RESISTORS
   - Unit : k-kΩ, M-MΩ or Ω unless otherwise noted.
   - Rated power : 1/16W unless otherwise noted.
   - Tolerance : ±5%(J) unless otherwise noted.
   - ▭ : Resistor symbol enclosed by solid line express resistor array.
2. CAPACITORS
   - Unit : p-pF or μF unless otherwise noted.
   - Rated Voltage : shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   - RZV : RZV Series(Low impedance)
   - SVPC : OS CON


S 1/6
DIMM DION STOP XADC SEL1 SEL2 SEL3 IEEE XTL0 XPDN DICS DICK DIDI DIDO DATA UNLK
DION
DATA
UNLK
DICS
DICK
DIDI
DIDO
XPDN
SEL3 STOP DIMM
IC121(1/4) TC74VHC08FT
IC121(2/4)
IC121(4/4)
IC121(3/4)
R188 100
R192 47
R193 47
R194 47
R195 47
R189 100
R190 100
R191 100
LCK1
BCK1
LCK2
BCK2
(1ST DSP) S 4/6
(2ND DSP) S 5/6
C182 YB 0.1/16
C181 YB 470p
TC74VHC74FT
IC118 (2/2)
IC118 (1/2)
R176 100
R178 100
R179 100
R177 100
C176 0.1/16 YB
C175 YB 470p
C180 0.1/16 YB
C179 YB 470p
IC120 TC74VHC153FT
D-Samp 1/256 DIR none
B&LRCK SEL2
100x4 R184
R186 47
100x4 R185
R187 47
Selector
L118 ATL7002
IC115 TC74VHC4040FT
R168 47
R169 47
R170 47
R171 47
R167 100
STOP
C166 ACH7206 RZV 100/6.3
C171 470p YB
C172 0.1/16 YB
C174 0.1/16 YB
C173 470p YB
IC116 TC74VHC153FT
1394 USB 1/512 none
B&LRCK SEL1
100x4 R172
R174 47
100x4 R173
R175 47
IEBK UBCK ULCK IELK
IC117(2/4)
IC117(1/4)
IC117(4/4)
IC117(3/4)
TC74VHC125FT
R196 47
R198 100
R199 100
R100 47
R101 47
R197 47
C183 470p YB
C184 0.1/16 YB
BCLK LRCK SBDT SRDT CWDT FTDT
(1ST DSP) S 4/6
IELK IEBK IEMK IBDT ISDT ICDT IFDT DFMK
(1394) (DAC10) S 1/6
L109 QTL1013
SEL1
SEL2
IC114 TC74VHC153FT
S&SBch DATA SEL2
100x4 R162
R164 47
C105 ACH7206 RZV 100/6.3
AFDT ISDT USDT ASDT SRDT
C170 0.1/16 YB
C169 YB 470p
R163 100x4
R165 47
SBDT ABDT UBDT IBDT IFDT UFDT FTDT
IC113 TC74VHC153FT
F&Cch DATA SEL1
100x4 R158
R160 47
C167 470p YB
C168 0.1/16 YB
100x4 R159
R161 47
ICDT UCDT ACDT CWDT
QTL1013 L120
XADC
IC111 (3/4)
IC111 (4/4)
IC111 (1/4)
IC111 (2/4)
TC74VHC125FT
R145 100
R146 100
R147 100
R148 100
R149 47
R150 22
R151 22
R152 22
R153 100k
R154 100k
R155 100k
C160 ACH7206 RZV 100/6.3
C161 1/6.3 YB
C162 0.01 YB
ADLK ADBK ADMK DFMK UMCK IEMK
VD3A
L119 QTL1013
100x4 R156
R157 22
C163 RZV 100/6.3 ACH7206
IC112 TC74VHC153FT
1394 USB DIR
MCK SEL
C164 0.01 YB
C165 1/6.3 YB
ABDT ASDT ACDT AFDT ADLK ADBK ADMK
S 1/6
UMCK UBDT USDT UCDT UFDT ULCK UBCK
S 6/6

3.21 DSP ASSY(4/6)

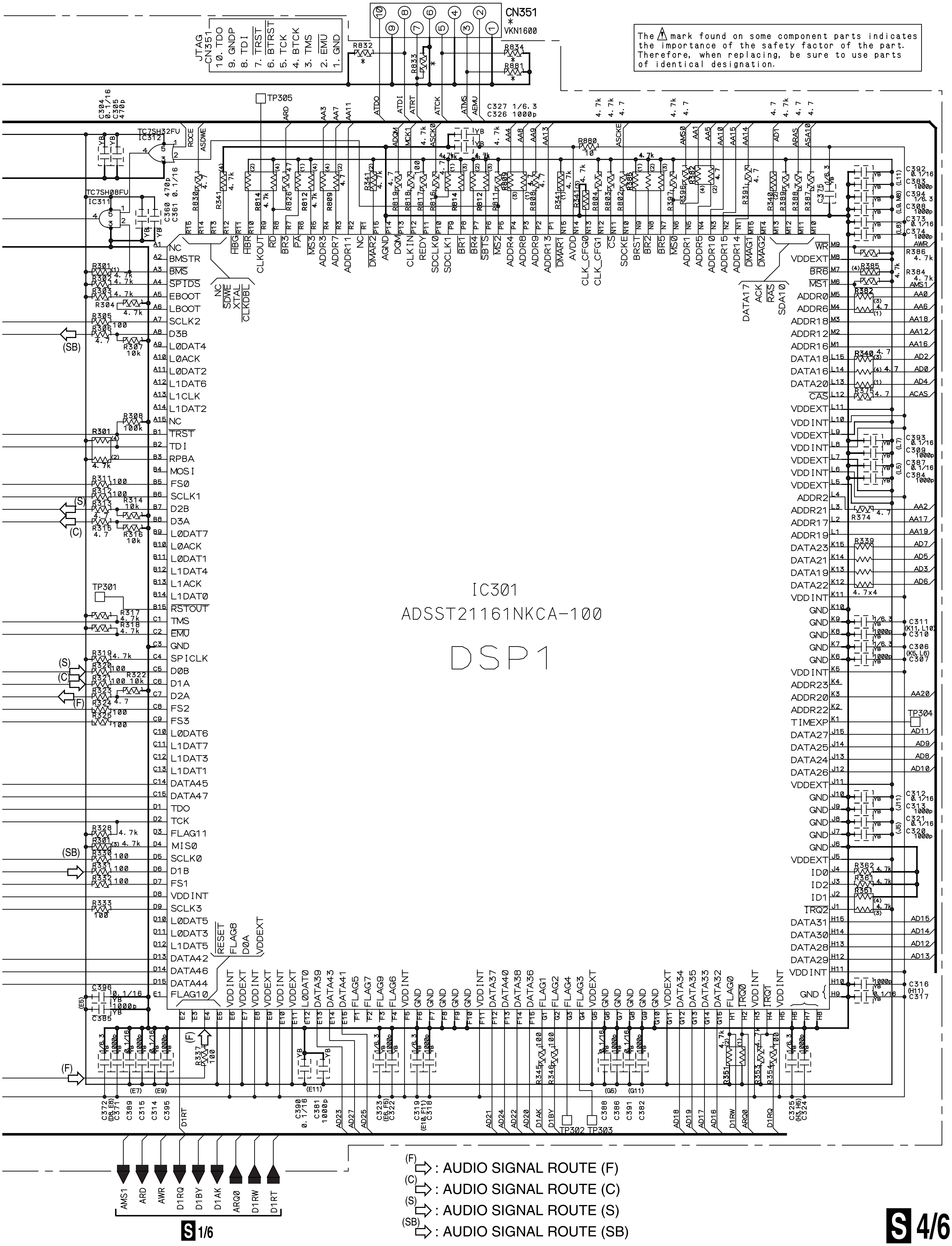

S 4/6 DSP ASSY (AWK7774)
VD3A
VDD5
VD18A
IC305 NJM2391DL1-33
IC307 NJM2391DL1-33
IC306 PQ018EZ01ZP
VIN VOUT
ON OFF ADJ
OUT IN
L301 ATL7002
L303 ATL7002
L305 ATL7002
L306 ATL7002
L307 ATL7002
C358 ACH7206 RZV 100/6.3
C357 0.1/16
C362 0.1/16
C363 ACH7206 RZV 100/6.3
C359 0.1/16
C301 SVPC 220/6.3 ACH7195
C302 SVPC 220/6.3 ACH7195
C328 SVPC 220/6.3 ACH7195
C341 SVPC 220/6.3 ACH7195
C354 RZV 100/6.3 ACH7206
GNDP
C330 0.1/16 YB
C329 470p YB
IC302 HY57V161610DTC-8 SDRAM
IC303 HY57V161610DTC-8 SDRAM
VDD DQ0 DQ1 VSSQ DQ2 DQ3 VDDQ DQ4 DQ5 VSSQ DQ6 DQ7 VDDQ LDQM WE CAS RAS CS BA A10 A0 A1 A2 A3 VDD
VSS DQ15 DQ14 VSSQ DQ13 DQ12 VDDQ DQ11 DQ10 VSSQ DQ9 DQ8 VDDQ NC UDQM CLK CKE NC A9 A8 A7 A6 A5 A4 VSS
R835 33x4
R836 33x4
R848 68x4
R847 68x4
R846 33
R845 10
R844 33
R843 33
R842 33
R841 33x4
R837 33x4
R838 33
R839 33
R840 33x4
R849 68x4
R850 68x4
R862 68x4
R861 68x4
R860 33
R859 10
R858 33
R857 33
R856 33
R855 33x4
R851 33x4
R852 33
R853 33
R854 33x4
C331 0.1/16 C332 YB 470p
C333 C334 0.1/16 YB 470p
C335 0.1/16 YB
C336 470p YB
C337 C338 C339 C340 470p 0.1/16 YB
C342 0.1/16 YB
C343 470p YB
C344 C345 0.1/16 470p YB
C346 470p C347 0.1/16 YB
C348 470p YB
C349 0.1/16 YB
C350 C351 C352 C353 470p 0.1/16 YB
AD0 AD1 AD2 AD3 AD4 AD5 AD6 AD7 AD8 AD9 AD10 AD11 AD12 AD13 AD14 AD15
AD16 AD17 AD18 AD19 AD20 AD21 AD22 AD23 AD24 AD25 AD26 AD27 AD28 AD29 AD30 AD31
ADQM1 ADQM2 ADQM ASDWE ACAS ARAS AMS0 ASA10 ASCK0 ASCKE
AA0 AA1 AA2 AA3 AA4 AA5 AA6 AA7 AA8 AA9 AA10 AA11 AA12 AA13 AA14 AA15 AA16 AA17 AA18 AA19 AA20
AWR ARD ABMS
IC304 AYW7035 (IC:MBM29LV160TE-90PFTN) ROM
A15 A14 A13 A12 A11 A10 A9 A8 A19 NC WE RESET NC NC RY/BY A18 A17 A7 A6 A5 A4 A3 A2 A1
A16 BYTE VSS DQ15/A-1 DQ7 DQ14 DQ6 DQ13 DQ5 DQ12 DQ4 VCC DQ11 DQ3 DQ10 DQ2 DQ9 DQ1 DQ8 DQ0 OE VSS CE A0
R876 33
R878 68
R877 47k
R875 33x4
R874 33x4
R873 47
R872 47
R871 33
R863 68x4 R864 68x4 R865 68 R867 47k
R868 68 R869 33x4 R870 33x4
C355 470p YB
C356 0.1/16 YB
ABMS R831 47
ATRT ATDI ATMS AEMU ATDO ATCK
(SB) (S) (C) (F)
ROCE AD0 AD1 AD2 AD3 AD4 AD5 AD6 AD7
S 1/6
BCLK LRCK SBDT SRDT CWDT FTDT BCK1 LCK1
S 3/6
FDT2 CDT2 SDT2 BDT2 MCK1
S 5/6
MCK1

NOTES

1. RESISTORS
   Unit : k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power : 1/16W unless otherwise noted.
   Tolerance : ±5%(J) unless otherwise noted.
   ▭ : Resistor symbol enclosed by solid line express resistor array.
2. CAPACITORS
   Unit : p-pF or μF unless otherwise noted.
   Rated Voltage : shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   RZV : RZV Series(Low impedance)
   SVPC : OS CON

S 4/6

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.


CN351
VKN1600
JTAG
CN351
10. TDO
9. GNDP
8. TDI
7. TRST
6. BTRST
5. TCK
4. BTCK
3. TMS
2. EMU
1. GND
TP305
TC7SH32FU
IC312
TC7SH08FU
IC311
IC301
ADSST21161NKCA-100
DSP1
TP301
TP302
TP303
TP304
(SB)
(S)
(C)
(F)
AMS1
ARD
AWR
D1RQ
D1BY
D1AK
ARQ0
D1RW
D1RT
S 1/6

(F) ⇨ : AUDIO SIGNAL ROUTE (F)

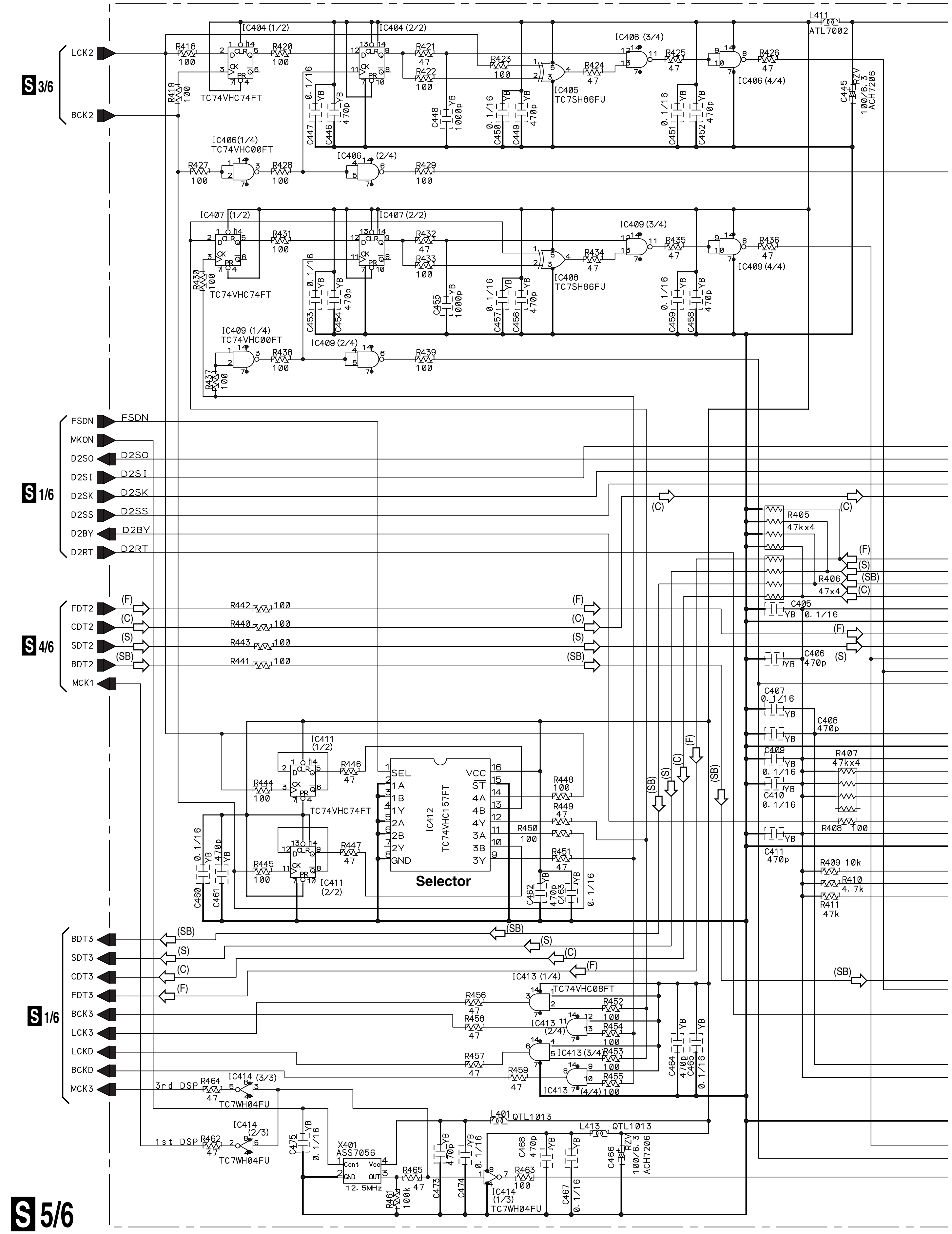
(C) ⇨ : AUDIO SIGNAL ROUTE (C)

(S) ⇨ : AUDIO SIGNAL ROUTE (S)

(SB) ⇨ : AUDIO SIGNAL ROUTE (SB)

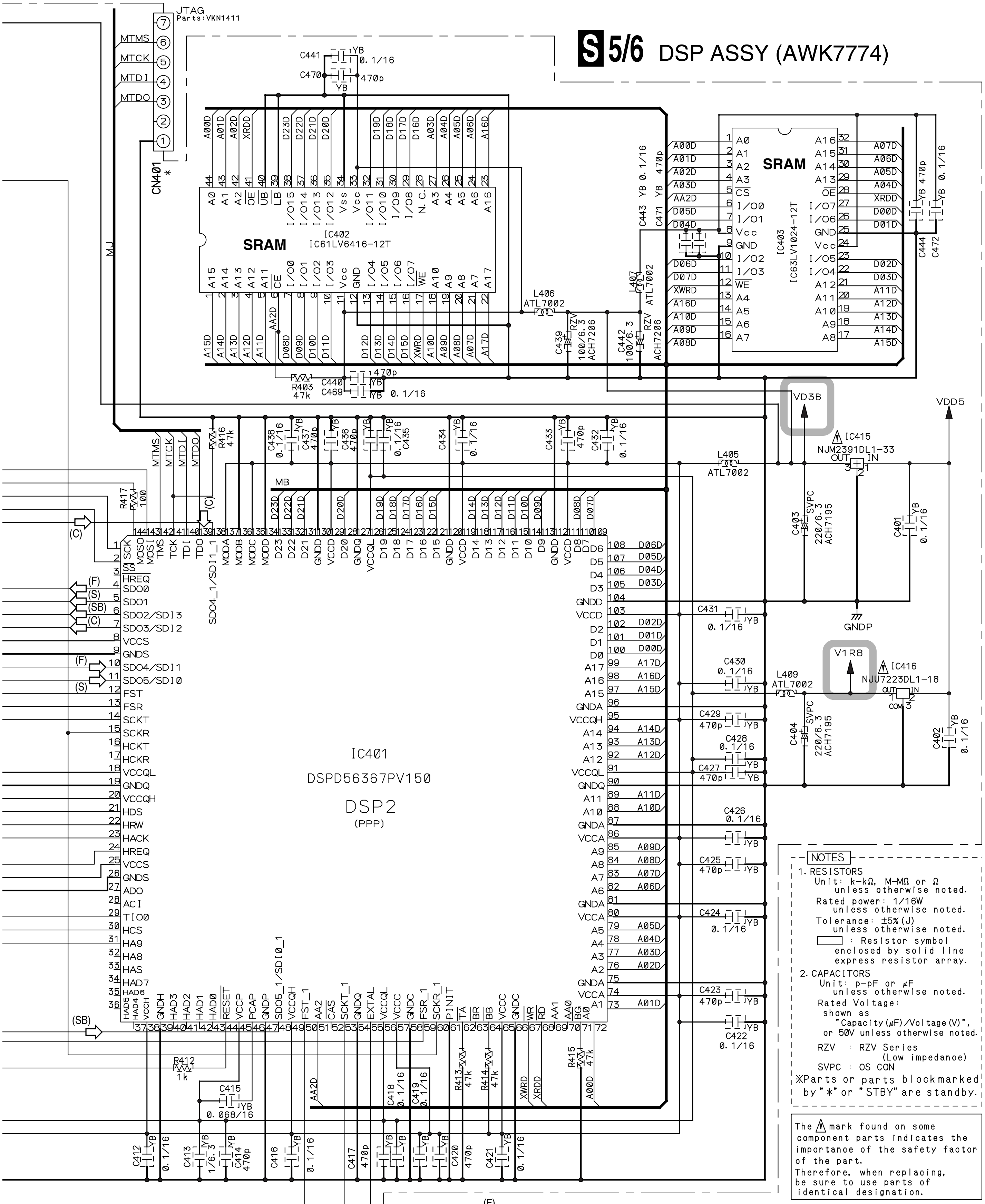
S 4/6

3.22 DSP ASSY(5/6)



LCK2
BCK2
S 3/6
R418 100
R419 100
IC404 (1/2)
TC74VHC74FT
R420 100
IC404 (2/2)
R421 47
R422 100
R423 100
IC405 TC7SH86FU
R424 47
IC406 (3/4)
R425 47
IC406 (4/4)
R426 47
L411 ATL7002
C445 100/6.3 RZV ACH7206
C447 0.1/16 YB
C446 470p YB
C448 1000p YB
C450 0.1/16 YB
C449 470p YB
C451 0.1/16 YB
C452 470p YB
IC406(1/4) TC74VHC00FT
R427 100
R428 100
IC406 (2/4)
R429 100
IC407 (1/2)
TC74VHC74FT
R430 100
R431 100
IC407 (2/2)
R432 47
R433 100
IC408 TC7SH86FU
R434 47
IC409 (3/4)
R435 47
IC409 (4/4)
R436 47
C453 0.1/16 YB
C454 470p YB
C455 1000p YB
C457 0.1/16 YB
C456 470p YB
C459 0.1/16 YB
C458 470p YB
IC409 (1/4) TC74VHC00FT
R437 100
R438 100
IC409 (2/4)
R439 100
FSDN
MKON
D2SO
D2SI
D2SK
D2SS
D2BY
D2RT
S 1/6
FDT2
CDT2
SDT2
BDT2
MCK1
S 4/6
(F)
(C)
(S)
(SB)
R442 100
R440 100
R443 100
R441 100
R405 47k×4
R406 47×4
C405 0.1/16 YB
C406 470p YB
C407 0.1/16 YB
C408 470p
C409 0.1/16 YB
C410 0.1/16 YB
R407 47k×4
R408 100
C411 470p YB
R409 10k
R410 4.7k
R411 47k
IC411 (1/2)
TC74VHC74FT
R444 100
R446 47
IC411 (2/2)
R445 100
R447 47
C460 0.1/16 YB
C461 470p YB
IC412 TC74VHC157FT
SEL
1A
1B
1Y
2A
2B
2Y
GND
VCC
ST
4A
4B
4Y
3A
3B
3Y
Selector
R448 100
R449 47
R450 100
R451 47
C462 470p YB
C463 0.1/16 YB
BDT3
SDT3
CDT3
FDT3
BCK3
LCK3
LCKD
BCKD
MCK3
S 1/6
IC413 (1/4) TC74VHC08FT
R456 47
R452 100
IC413 (2/4)
R458 47
R454 100
IC413 (3/4)
R457 47
R453 100
R459 47
IC413 (4/4)
R455 100
C464 470p YB
C465 0.1/16 YB
3rd DSP
R464 47
IC414 (3/3) TC7WH04FU
1st DSP
R462 47
IC414 (2/3) TC7WH04FU
C475 0.1/16 YB
X401 ASS7056
Cont
Vcc
GND
OUT
12.5MHz
R461 100k
R465 47
C473 470p YB
C474 0.1/16 YB
L401 QTL1013
IC414 (1/3) TC7WH04FU
R463 100
C468 470p YB
C467 0.1/16 YB
L413 QTL1013
C466 100/6.3 RZV ACH7206
S 5/6

S 5/6 DSP ASSY (AWK7774)


JTAG
Parts:VKN1411
CN401
MTMS
MTCK
MTDI
MTDO
MJ
MB
SRAM
IC402
IC61LV6416-12T
SRAM
IC403
IC63LV1024-12T
IC401
DSPD56367PV150
DSP2
(PPP)
IC415
NJM2391DL1-33
IC416
NJU7223DL1-18
VD3B
VDD5
V1R8
GNDP
L405
ATL7002
L406
ATL7002
L407
ATL7002
L409
ATL7002
C403
SVPC
220/6.3
ACH7195
C404
SVPC
220/6.3
ACH7195
C439
RZV
100/6.3
ACH7206
C442
RZV
100/6.3
ACH7206
R403
47k
R416
47k
R417
100
R412
1k
R413
47k
R414
47k
R415
47k
C415
0.068/16
C441
0.1/16
C470
470p
(F)
(S)
(SB)
(C)

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
   ▭ : Resistor symbol enclosed by solid line express resistor array.
2. CAPACITORS
   Unit: p-pF or µF unless otherwise noted.
   Rated Voltage: shown as "Capacity(µF)/Voltage(V)", or 50V unless otherwise noted.
   RZV : RZV Series (Low impedance)
   SVPC : OS CON

※Parts or parts blockmarked by "*" or "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

(F)⇨ : AUDIO SIGNAL ROUTE (F)
(C)⇨ : AUDIO SIGNAL ROUTE (C)
(S)⇨ : AUDIO SIGNAL ROUTE (S)
(SB)⇨ : AUDIO SIGNAL ROUTE (SB)

3.23 DSP ASSY(6/6)

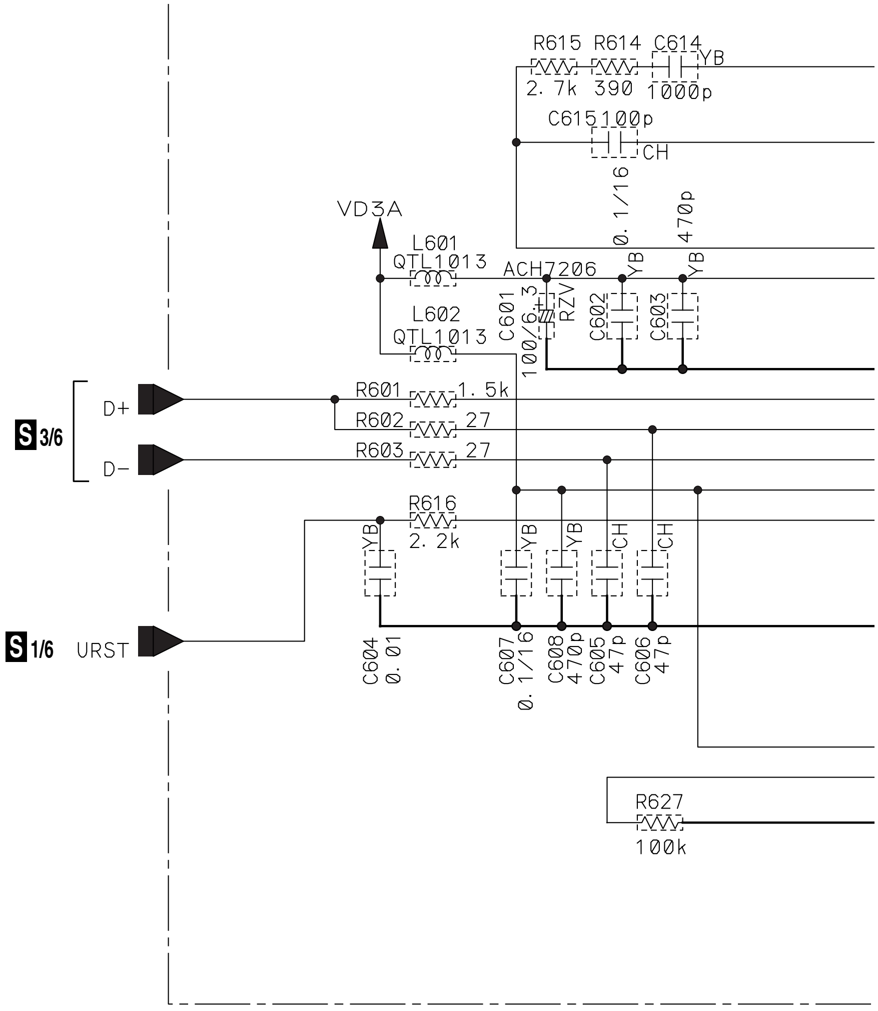
NOTES

1. RESISTORS
   Unit : k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance : ±5%(J) unless otherwise noted.

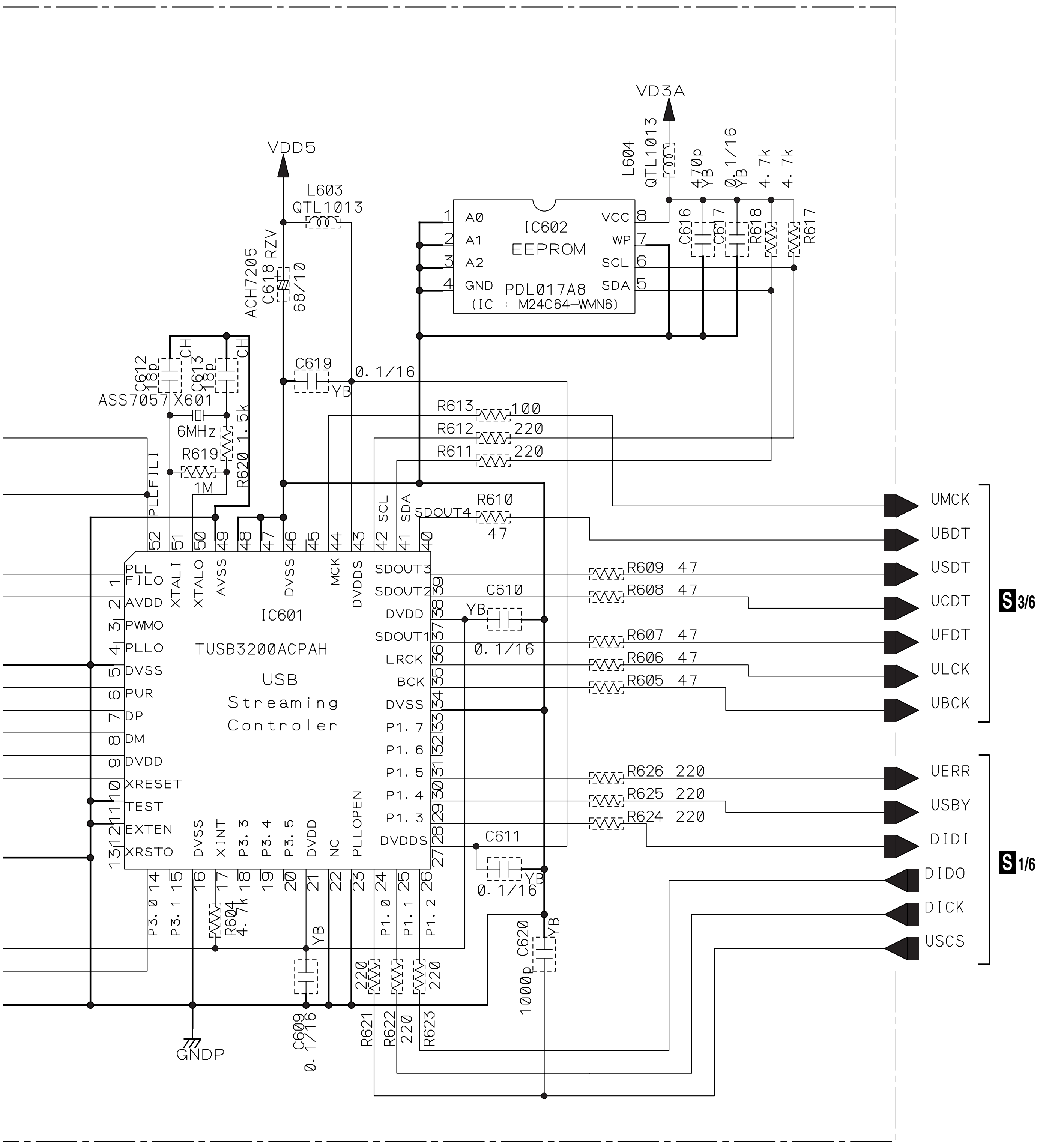
2. CAPACITORS
   Unit : p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   RZV : RZV Series(Low impedance)

S 6/6

DSP ASSY (AWK7774)


R615
R614
C614
YB
2.7k
390
1000p
C615 100p
CH
0.1/16
470p
VD3A
L601
QTL1013
ACH7206
YB
YB
C601
100/6.3
RZV
C602
C603
L602
QTL1013
R601
1.5k
R602
27
R603
27
S 3/6
D+
D−
R616
2.2k
YB
YB
YB
CH
CH
S 1/6
URST
C604
0.01
C607
0.1/16
C608
470p
C605
47p
C606
47p
R627
100k

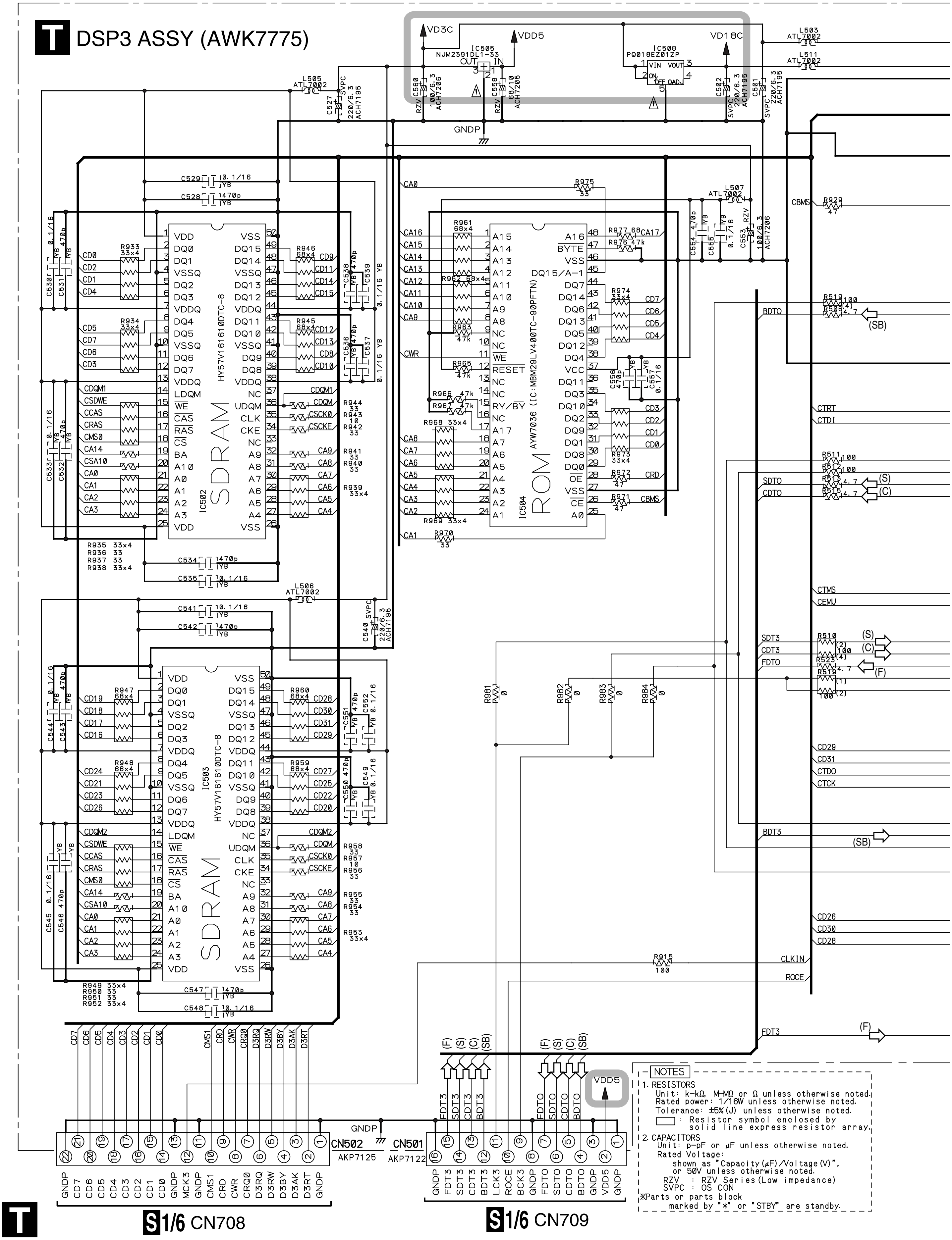
S 6/6


VD3A
VDD5
L603
QTL1013
L604
QTL1013
470p
YB
0.1/16
YB
4.7k
4.7k
C616
C617
R618
R617
IC602
EEPROM
PDL017A8
(IC : M24C64-WMN6)
A0
A1
A2
GND
VCC
WP
SCL
SDA
ACH7205
C618 RZV
68/10
C612
18p
CH
C613
18p
CH
ASS7057
X601
6MHz
R620 1.5k
R619
1M
C619
0.1/16
YB
R613 100
R612 220
R611 220
R610
47
SDOUT4
IC601
TUSB3200ACPAH
USB
Streaming
Controler
PLL FILO
AVDD
PWMO
PLLO
DVSS
PUR
DP
DM
DVDD
XRESET
TEST
EXTEN
XRSTO
PLLFILI
XTALI
XTALO
AVSS
DVSS
MCK
DVDDS
SCL
SDA
SDOUT3
SDOUT2
DVDD
SDOUT1
LRCK
BCK
DVSS
P1.7
P1.6
P1.5
P1.4
P1.3
DVDDS
P3.0
P3.1
DVSS
XINT
P3.3
P3.4
P3.5
DVDD
NC
PLLOPEN
P1.0
P1.1
P1.2
R609 47
R608 47
C610
YB
0.1/16
R607 47
R606 47
R605 47
R626 220
R625 220
R624 220
C611
0.1/16
YB
R604
4.7k
C609
0.1/16
YB
C620
1000p
YB
R621
220
R622
220
R623
220
GNDP
UMCK
UBDT
USDT
UCDT
UFDT
ULCK
UBCK
S 3/6
UERR
USBY
DIDI
DIDO
DICK
USCS
S 1/6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52

A B C D E F

S 6/6

3.24 DSP3 ASSY



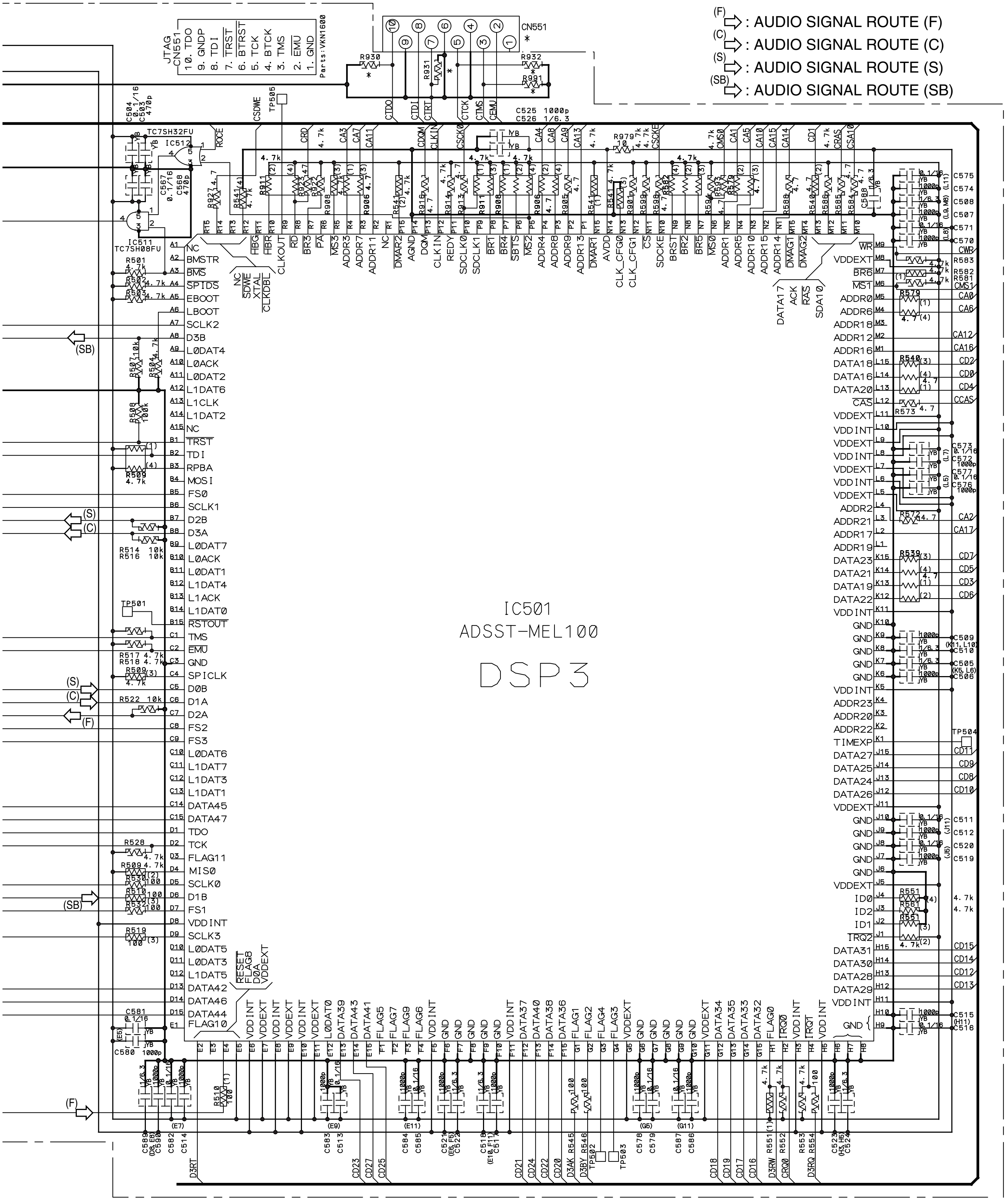
T DSP3 ASSY (AWK7775)
VD3C
VDD5
VD18C
IC505 NJM2391DL1-33
OUT IN
IC508 PQ018EZ01ZP
VIN VOUT
ON/OFF OADJ
C560 100/6.3 RZV ACH7206
C558 68/10 RZV ACH7205
C502 220/6.3 SVPC ACH7195
C501 220/6.3 SVPC ACH7195
GNDP
L503 ATL7002
L511 ATL7002
L505 ATL7002
C527 220/6.3 SVPC ACH7195
L506 ATL7002
C540 220/6.3 SVPC ACH7195
L507 ATL7002
C554 470p YB
C555 0.1/16 YB
C553 100/6.3 RZV ACH7206
IC502 HY57V161610DTC-8 SDRAM
IC503 HY57V161610DTC-8 SDRAM
IC504 AYW7036 (IC:MBM29LV400TC-90PFTN) ROM
VDD DQ0 DQ1 VSSQ DQ2 DQ3 VDDQ DQ4 DQ5 VSSQ DQ6 DQ7 VDDQ LDQM WE CAS RAS CS BA A10 A0 A1 A2 A3 VDD
VSS DQ15 DQ14 VSSQ DQ13 DQ12 VDDQ DQ11 DQ10 VSSQ DQ9 DQ8 VDDQ NC UDQM CLK CKE NC A9 A8 A7 A6 A5 A4 VSS
A15 A14 A13 A12 A11 A10 A9 A8 NC NC WE RESET NC NC RY/BY NC A17 A7 A6 A5 A4 A3 A2 A1
A16 BYTE VSS DQ15/A-1 DQ7 DQ14 DQ6 DQ13 DQ5 DQ12 DQ4 VCC DQ11 DQ3 DQ10 DQ2 DQ9 DQ1 DQ8 DQ0 OE VSS CE A0
R933 33x4
R934 33x4
R946 68x4
R945 68x4
R944 33
R943 10
R942 33
R941 33
R940 33
R939 33x4
R935 33x4
R936 33
R937 33
R938 33x4
R947 68x4
R948 68x4
R960 68x4
R959 68x4
R958 33
R957 10
R956 33
R955 33
R954 33
R953 33x4
R949 33x4
R950 33
R951 33
R952 33x4
R961 68x4
R962 68x4
R963 47k
R965 47k
R966 47k
R967 47k
R968 33x4
R969 33x4
R970 33
R975 33
R977 68
R976 47k
R974 33x4
R973 33x4
R972 47
R971 47
R929 47
R519 100
R506 4.7
R511 100
R512 100
R513 4.7
R515 4.7
R510 100
R523 4.7
R516 100
R981 0
R982 0
R983 0
R984 0
R915 100
C529 0.1/16 YB
C528 470p YB
C530 0.1/16 YB
C531 470p YB
C538 470p YB
C539 0.1/16 YB
C536 470p YB
C537 0.1/16 YB
C533 0.1/16 YB
C532 470p YB
C534 470p YB
C535 0.1/16 YB
C541 0.1/16 YB
C542 470p YB
C544 0.1/16 YB
C543 470p YB
C551 470p YB
C552 0.1/16 YB
C550 470p YB
C549 0.1/16 YB
C545 0.1/16 YB
C546 470p YB
C547 470p YB
C548 0.1/16 YB
C556 470p YB
C557 0.1/16 YB
CD0 CD1 CD2 CD3 CD4 CD5 CD6 CD7 CD8 CD9 CD10 CD11 CD12 CD13 CD14 CD15
CD16 CD17 CD18 CD19 CD20 CD21 CD22 CD23 CD24 CD25 CD26 CD27 CD28 CD29 CD30 CD31
CDQM1 CDQM2 CDQM CSDWE CCAS CRAS CMS0 CSA10 CSCK0 CSCKE
CA0 CA1 CA2 CA3 CA4 CA5 CA6 CA7 CA8 CA9 CA10 CA11 CA12 CA13 CA14 CA15 CA16 CA17
CWR CRD CBMS
BDTO (SB)
CTRT CTDI
SDTO (S)
CDTO (C)
CTMS CEMU
SDT3 (S)
CDT3 (C)
FDTO (F)
CD29 CD31 CTDO CTCK
BDT3 (SB)
CD26 CD30 CD28
CLKIN ROCE
FDT3 (F)
CD7 CD6 CD5 CD4 CD3 CD2 CD1 CD0 CMS1 CRD CWR CRQ0 D3RQ D3RW D3BY D3AK D3RT
(F) (S) (C) (SB) FDT3 SDT3 CDT3 BDT3
(F) (S) (C) (SB) FDTO SDTO CDTO BDTO
VDD5
GNDP
CN502 AKP7125
CN501 AKP7122
GNDP CD7 CD6 CD5 CD4 CD3 CD2 CD1 CD0 GNDP MCK3 GNDP CMS1 CRD CWR CRQ0 D3RQ D3RW D3BY D3AK D3RT GNDP
GNDP FDT3 SDT3 CDT3 BDT3 LCK3 ROCE BCK3 GNDP FDTO SDTO CDTO BDTO GNDP VDD5 GNDP
S 1/6 CN708
S 1/6 CN709

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
   ▭ : Resistor symbol enclosed by solid line express resistor array.

2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage:
   shown as "Capacity(μF)/Voltage(V)",
   or 50V unless otherwise noted.
   RZV : RZV Series(Low impedance)
   SVPC : OS CON

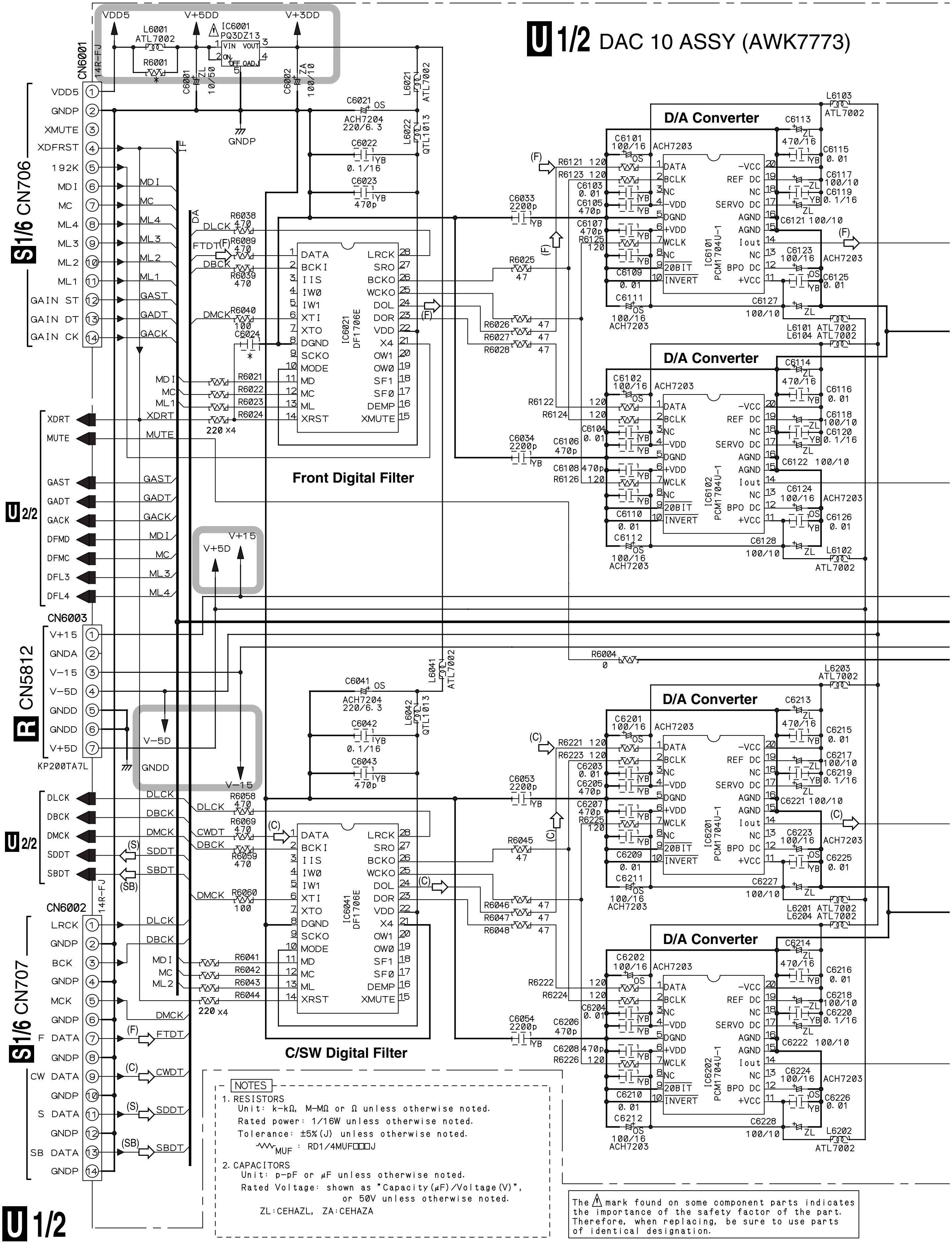
※Parts or parts block marked by "*" or "STBY" are standby.


(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)
JTAG CN551
10. TDO
9. GNDP
8. TDI
7. TRST
6. BTRST
5. TCK
4. BTCK
3. TMS
2. EMU
1. GND
Parts:VKN1600
CN551
R930
R931
R932
R991
TP505
CSDWE
ROCE
CTDO
CTDI
CTRT
CTCK
CTMS
CEMU
C525 1000p
C526 1/6.3
C504 0.1/16
C503 470p
TC7SH32FU
IC512
C567 0.1/16
C568 470p
IC511
TC7SH08FU
R327
R541
R911
R923
R922
R908
R906
R916
R914
R913
R905
R979
R901
R599
R598
R582
R594
R593
R579
R588
R540
R585
R584
C588
C575
C574
C508
C507
C571
C570
CWR
R583
R582
R581
CMS1
CA0
CA6
CA12
CA16
CD2
CD0
CD4
CCAS
R573
C573
C572
C577
C576
CA2
CA17
R572
R539
CD7
CD5
CD3
CD6
C509
C510
C505
C506
TP504
CD11
CD9
CD8
CD10
C511
C512
C520
C519
R551
CD15
CD14
CD12
CD13
C515
C516
R501 4.7k
R502 4.7k
R503 4.7k
R507 10k
R504 4.7k
R508 100k
R509 4.7k
R514 10k
R516 10k
TP501
R517 4.7k
R518 4.7k
R522 10k
R528
R530
R510
R531
R519 100
C581
C580 1000p
R510 100
R545
R546
TP502
TP503
R552
R553
R554
C589
C590
C582
C514
C583
C513
C584
C585
C521
C522
C518
C517
C578
C579
C587
C586
C523
C524
D3RT
CD23
CD27
CD25
CD21
CD24
CD22
CD20
D3AK
D3BY
CD18
CD19
CD17
CD16
D3RW
CRQ0
D3RQ
CRD
CA3
CA7
CA11
CDQM
CLKIN
CSCK0
CA4
CA8
CA9
CA13
CSCKE
CMS0
CA1
CA5
CA10
CA15
CA14
CD1
CRAS
CSA10
(SB)
(S)
(C)
(F)
NC
BMSTR
BMS
SPIDS
EBOOT
LBOOT
SCLK2
D3B
L0DAT4
L0ACK
L0DAT2
L1DAT6
L1CLK
L1DAT2
NC
TRST
TDI
RPBA
MOSI
FS0
SCLK1
D2B
D3A
L0DAT7
L0ACK
L0DAT1
L1DAT4
L1ACK
L1DAT0
RSTOUT
TMS
EMU
GND
SPICLK
D0B
D1A
D2A
FS2
FS3
L0DAT6
L1DAT7
L1DAT3
L1DAT1
DATA45
DATA47
TDO
TCK
FLAG11
MIS0
SCLK0
D1B
FS1
VDDINT
SCLK3
L0DAT5
L0DAT3
L1DAT5
DATA42
DATA46
DATA44
FLAG10
RESET
FLAG8
D0A
VDDEXT
NC
SDWE
XTAL
CLKDBL
FBG
FBR
CLKOUT
RD
BR3
PA
MS3
ADDR3
ADDR7
ADDR11
NC
DMAR2
AGND
DQM
CLKIN
REDY
SDCLK0
SDCLK1
BR1
BR4
SBTS
MS2
ADDR4
ADDR8
ADDR9
ADDR13
DMAR1
AVDD
CLK_CFG0
CLK_CFG1
CS
SDCKE
BRST
BR2
BR5
MS0
ADDR1
ADDR5
ADDR10
ADDR15
ADDR14
DMAG1
DMAG2
DATA17
ACK
RAS
SDA10
WR
VDDEXT
BR6
MS1
ADDR0
ADDR6
ADDR18
ADDR12
ADDR16
DATA18
DATA16
DATA20
CAS
VDDEXT
VDDINT
VDDEXT
VDDINT
VDDEXT
VDDINT
VDDEXT
ADDR2
ADDR21
ADDR17
ADDR19
DATA23
DATA21
DATA19
DATA22
VDDINT
GND
GND
GND
GND
GND
VDDINT
ADDR23
ADDR20
ADDR22
TIMEXP
DATA27
DATA25
DATA24
DATA26
VDDEXT
GND
GND
GND
GND
GND
VDDEXT
ID0
ID2
ID1
IRQ2
DATA31
DATA30
DATA28
DATA29
VDDINT
GND
VDDINT
VDDEXT
VDDINT
VDDEXT
VDDINT
VDDEXT
L0DAT0
DATA39
DATA43
DATA41
FLAG5
FLAG7
FLAG9
FLAG6
VDDINT
GND
GND
GND
GND
GND
GND
VDDINT
DATA37
DATA40
DATA38
DATA36
FLAG1
FLAG2
FLAG4
FLAG3
VDDEXT
GND
GND
GND
GND
GND
GND
VDDEXT
DATA34
DATA35
DATA33
DATA32
FLAG0
IRQ0
VDDINT
IRQ1
VDDINT
GND
IC501
ADSST-MEL100
DSP3

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.

T

3.25 DAC10 ASSY(1/2)



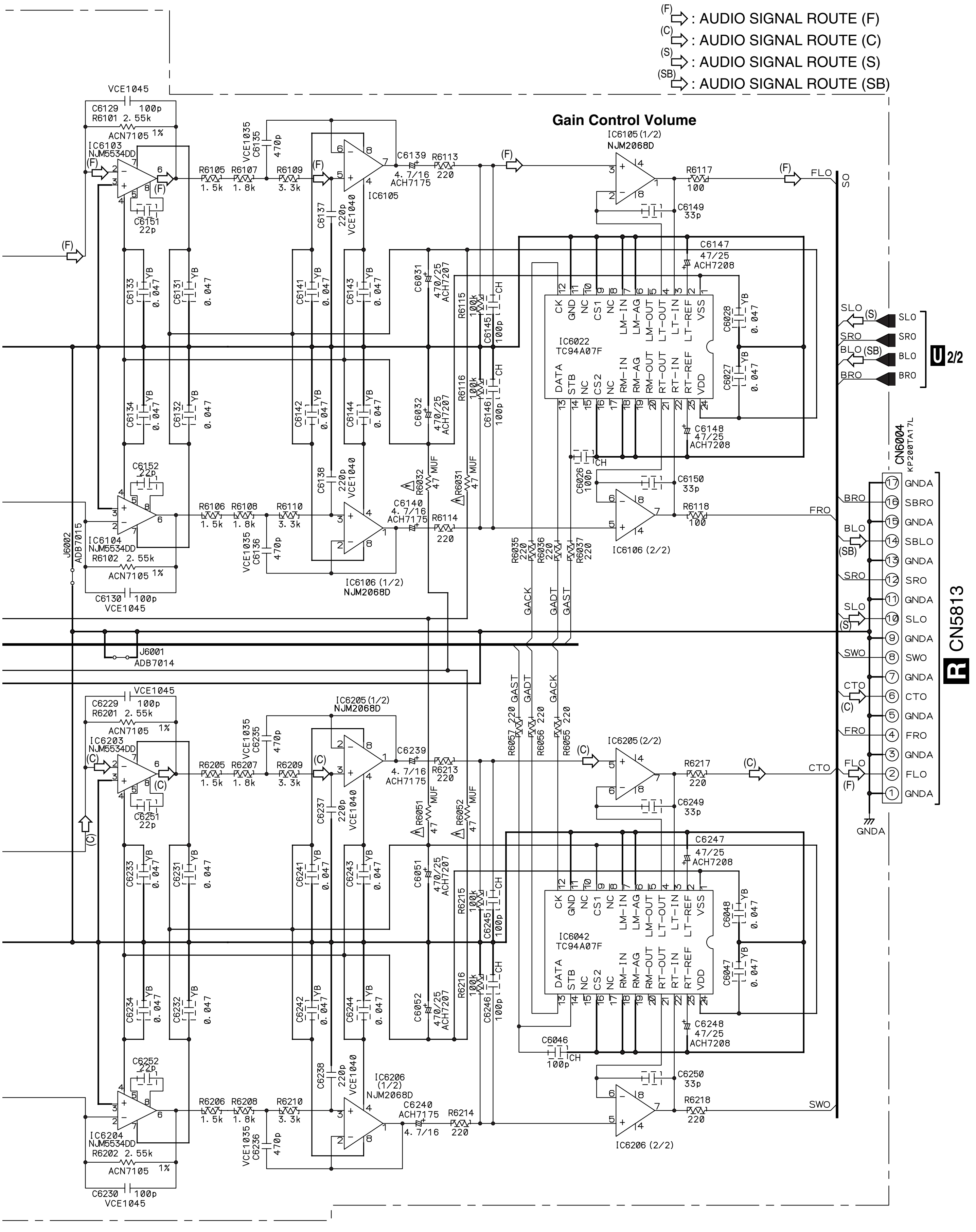
U 1/2 DAC 10 ASSY (AWK7773)
VDD5
V+5DD
V+3DD
L6001 ATL7002
R6001
IC6001 PQ3DZ13
VIN VOUT
ON OFF OADJ
C6001 ZL 10/50
C6002 ZA 100/10
GNDP
CN6001 14R-FJ
VDD5
GNDP
XMUTE
XDFRST
192K
MDI
MC
ML4
ML3
ML2
ML1
GAIN ST
GAIN DT
GAIN CK
S 1/6 CN706
C6021 OS ACH7204 220/6.3
C6022 0.1/16 YB
C6023 470p YB
L6021 ATL7002
L6022 QTL1013
IF
DA
DLCK
FTDT
DBCK
DMCK
R6038 470
R6089 470
R6039 470
R6040 100
C6024
DATA
BCKI
IIS
IW0
IW1
XTI
XTO
DGND
SCKO
MODE
MD
MC
ML
XRST
LRCK
SRO
BCKO
WCKO
DOL
DOR
VDD
X4
OW1
OW0
SF1
SF0
DEMP
XMUTE
IC6021 DF1706E
R6021
R6022
R6023
R6024
220 x4
Front Digital Filter
R6025 47
R6026 47
R6027 47
R6028 47
C6033 2200p YB
C6034 2200p YB
(F)
D/A Converter
IC6101 PCM1704U-1
IC6102 PCM1704U-1
DATA
BCLK
NC
-VDD
DGND
+VDD
WCLK
NC
20BIT
INVERT
-VCC
REF DC
NC
SERVO DC
AGND
AGND
Iout
NC
BPO DC
+VCC
R6121 120
R6123 120
R6125 120
R6122 120
R6124 120
R6126 120
C6101 100/16 OS ACH7203
C6103 0.01
C6105 470p
C6107 470p
C6109 0.01
C6111 OS 100/16 ACH7203
C6113 ZL 470/16
C6115 0.01
C6117 100/10
C6119 0.1/16
C6121 100/10
C6123 100/16 ACH7203
C6125 0.01
C6127 100/10
L6103 ATL7002
L6101 ATL7002
L6104 ATL7002
C6102 100/16 ACH7203
C6104 0.01
C6106 470p
C6108 470p
C6110 0.01
C6112 100/16 ACH7203
C6114 ZL 470/16
C6116 0.01
C6118 100/10
C6120 0.1/16
C6122 100/10
C6124 100/16 ACH7203
C6126 0.01
C6128 100/10
L6102 ATL7002
XDRT
MUTE
GAST
GADT
GACK
DFMD
DFMC
DFL3
DFL4
U 2/2
V+5D
V+15
CN6003
V+15
GNDA
V-15
V-5D
GNDD
GNDD
V+5D
R CN5812
KP200TA7L
V-5D
GNDD
V-15
R6004 0
L6041 ATL7002
L6042 QTL1013
C6041 OS ACH7204 220/6.3
C6042 0.1/16 YB
C6043 470p YB
DLCK
DBCK
DMCK
SDDT
SBDT
(S)
(SB)
U 2/2
CWDT
R6058 470
R6069 470
R6059 470
R6060 100
(C)
IC6041 DF1706E
R6041
R6042
R6043
R6044
220 x4
C/SW Digital Filter
R6045 47
R6046 47
R6047 47
R6048 47
C6053 2200p YB
C6054 2200p YB
IC6201 PCM1704U-1
IC6202 PCM1704U-1
R6221 120
R6223 120
R6225 120
R6222 120
R6224 120
R6226 120
C6201 100/16 ACH7203
C6203 0.01
C6205 470p
C6207 470p
C6209 0.01
C6211 100/16 ACH7203
C6213 ZL 470/16
C6215 0.01
C6217 100/10
C6219 0.1/16
C6221 100/10
C6223 100/16 ACH7203
C6225 0.01
C6227 100/10
L6203 ATL7002
L6201 ATL7002
L6204 ATL7002
C6202 100/16 ACH7203
C6204 0.01
C6206 470p
C6208 470p
C6210 0.01
C6212 100/16 ACH7203
C6214 ZL 470/16
C6216 0.01
C6218 100/10
C6220 0.1/16
C6222 100/10
C6224 100/16 ACH7203
C6226 0.01
C6228 100/10
L6202 ATL7002
CN6002 14R-FJ
LRCK
GNDP
BCK
GNDP
MCK
GNDP
F DATA
GNDP
CW DATA
GNDP
S DATA
GNDP
SB DATA
GNDP
S 1/6 CN707
FTDT
CWDT
SDDT
SBDT
U 1/2

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
   MUF : RD1/4MUF☐☐☐J

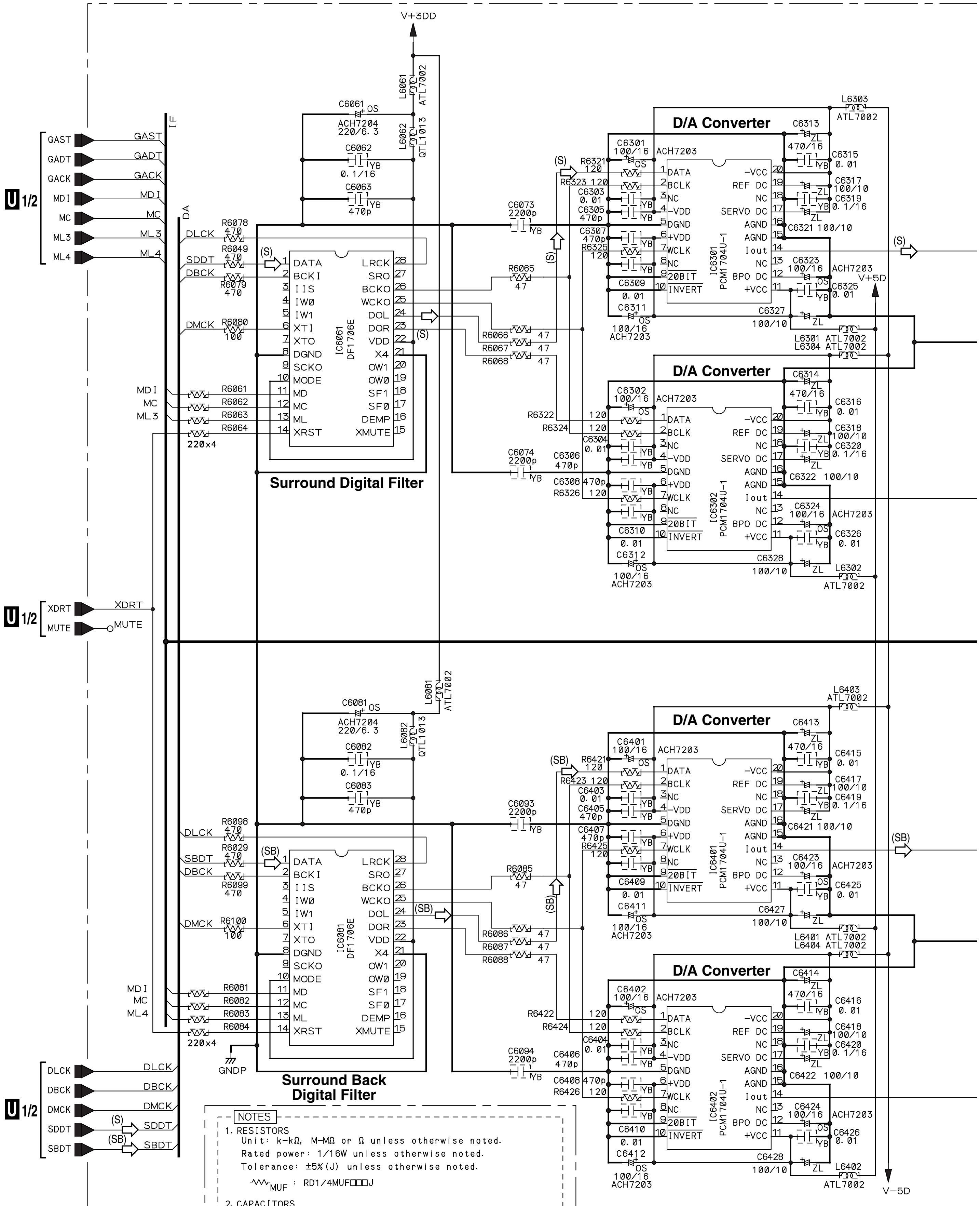
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)",
   or 50V unless otherwise noted.
   ZL:CEHAZL, ZA:CEHAZA

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.


(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)
Gain Control Volume
IC6103 NJM5534DD
IC6104 NJM5534DD
IC6105 (1/2) NJM2068D
IC6105
IC6106 (1/2) NJM2068D
IC6106 (2/2)
IC6022 TC94A07F
IC6042 TC94A07F
IC6203 NJM5534DD
IC6204 NJM5534DD
IC6205 (1/2) NJM2068D
IC6205 (2/2)
IC6206 (1/2) NJM2068D
IC6206 (2/2)
CK GND NC CS1 NC LM-IN LM-AG LM-OUT LT-OUT LT-IN LT-REF VSS
DATA STB NC CS2 NC RM-IN RM-AG RM-OUT RT-OUT RT-IN RT-REF VDD
R6101 2.55k
R6102 2.55k
R6201 2.55k
R6202 2.55k
ACN7105 1%
C6129 100p
C6130 100p
C6229 100p
C6230 100p
VCE1045
R6105 1.5k
R6107 1.8k
R6109 3.3k
R6106 1.5k
R6108 1.8k
R6110 3.3k
R6205 1.5k
R6207 1.8k
R6209 3.3k
R6206 1.5k
R6208 1.8k
R6210 3.3k
C6135 470p
C6136 470p
C6235 470p
C6236 470p
VCE1035
C6137 220p
C6138 220p
C6237 220p
C6238 220p
VCE1040
C6139 4.7/16 ACH7175
C6140 4.7/16 ACH7175
C6239 4.7/16 ACH7175
C6240 4.7/16 ACH7175
R6113 220
R6114 220
R6213 220
R6214 220
R6117 100
R6118 100
R6217 220
R6218 220
C6149 33p
C6150 33p
C6249 33p
C6250 33p
C6151 22p
C6152 22p
C6251 22p
C6252 22p
C6131 C6132 C6133 C6134 C6141 C6142 C6143 C6144 0.047 YB
C6231 C6232 C6233 C6234 C6241 C6242 C6243 C6244 0.047 YB
C6031 470/25 ACH7207
C6032 470/25 ACH7207
C6051 470/25 ACH7207
C6052 470/25 ACH7207
R6115 100k
R6116 100k
R6215 100k
R6216 100k
C6145 100p CH
C6146 100p CH
C6245 100p CH
C6246 100p CH
C6147 47/25 ACH7208
C6148 47/25 ACH7208
C6247 47/25 ACH7208
C6248 47/25 ACH7208
C6027 0.047 YB
C6028 0.047 YB
C6047 0.047 YB
C6048 0.047 YB
C6026 100p CH
C6046 100p CH
R6031 47 MUF
R6032 47 MUF
R6051 47 MUF
R6052 47 MUF
R6035 220
R6036 220
R6037 220
R6055 220
R6056 220
R6057 220
GACK GADT GAST
J6001 ADB7014
J6002 ADB7015
FLO FRO CTO SWO
SO
SLO SRO BLO BRO
U 2/2
CN6004 KP200TA17L
17 GNDA
16 SBRO
15 GNDA
14 SBLO
13 GNDA
12 SRO
11 GNDA
10 SLO
9 GNDA
8 SWO
7 GNDA
6 CTO
5 GNDA
4 FRO
3 GNDA
2 FLO
1 GNDA
GNDA
R CN5813

U 1/2

3.26 DAC10 ASSY(2/2)


A
B
C
D
E
F
V+3DD
L6061
ATL7002
L6062
QTL1013
C6061
OS
ACH7204
220/6.3
C6062
0.1/16
YB
C6063
470p
IF
DA
GAST
GADT
GACK
MDI
MC
ML3
ML4
U 1/2
DLCK
SDDT
DBCK
DMCK
R6078 470
R6049 470
R6079 470
R6080 100
(S)
IC6061
DF1706E
1 DATA
2 BCKI
3 IIS
4 IW0
5 IW1
6 XTI
7 XTO
8 DGND
9 SCKO
10 MODE
11 MD
12 MC
13 ML
14 XRST
28 LRCK
27 SRO
26 BCKO
25 WCKO
24 DOL
23 DOR
22 VDD
21 X4
20 OW1
19 OW0
18 SF1
17 SF0
16 DEMP
15 XMUTE
R6061
R6062
R6063
R6064
220x4
Surround Digital Filter
C6073
2200p
C6074
2200p
R6065 47
R6066 47
R6067 47
R6068 47
D/A Converter
IC6301
PCM1704U-1
IC6302
PCM1704U-1
-VCC
REF DC
NC
SERVO DC
AGND
Iout
BPO DC
+VCC
-VDD
+VDD
DGND
WCLK
20BIT
INVERT
C6301 100/16
ACH7203
R6321 120
R6323 120
C6303 0.01
C6305 470p
C6307 470p
R6325 120
C6309 0.01
C6311 100/16
ACH7203
C6313
ZL
470/16
C6315 0.01
C6317 100/10
C6319 0.1/16
C6321 100/10
C6323 100/16
ACH7203
C6325 0.01
C6327 100/10
L6303 ATL7002
L6301 ATL7002
L6304 ATL7002
V+5D
C6302 100/16
R6322 120
R6324 120
C6304 0.01
C6306 470p
C6308 470p
R6326 120
C6310 0.01
C6312 100/16
ACH7203
C6314 470/16
C6316 0.01
C6318 100/10
C6320 0.1/16
C6322 100/10
C6324 100/16
C6326 0.01
C6328 100/10
L6302 ATL7002
XDRT
MUTE
L6081
ATL7002
L6082
QTL1013
C6081
ACH7204
220/6.3
C6082 0.1/16
C6083 470p
R6098 470
R6029 470
R6099 470
R6100 100
SBDT
(SB)
IC6081
DF1706E
R6081
R6082
R6083
R6084
220x4
GNDP
Surround Back Digital Filter
C6093 2200p
C6094 2200p
R6085 47
R6086 47
R6087 47
R6088 47
IC6401
PCM1704U-1
IC6402
PCM1704U-1
C6401 100/16
R6421 120
R6423 120
C6403 0.01
C6405 470p
C6407 470p
R6425 120
C6409 0.01
C6411 100/16
C6413 470/16
C6415 0.01
C6417 100/10
C6419 0.1/16
C6421 100/10
C6423 100/16
C6425 0.01
C6427 100/10
L6403 ATL7002
L6401 ATL7002
L6404 ATL7002
C6402 100/16
R6422 120
R6424 120
C6404 0.01
C6406 470p
C6408 470p
R6426 120
C6410 0.01
C6412 100/16
C6414 470/16
C6416 0.01
C6418 100/10
C6420 0.1/16
C6422 100/10
C6424 100/16
C6426 0.01
C6428 100/10
L6402 ATL7002
V-5D
DLCK
DBCK
DMCK
SDDT
SBDT

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.
   MUF : RD1/4MUF□□□J

2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
   ZL:CEHAZL, ZA:CEHAZA

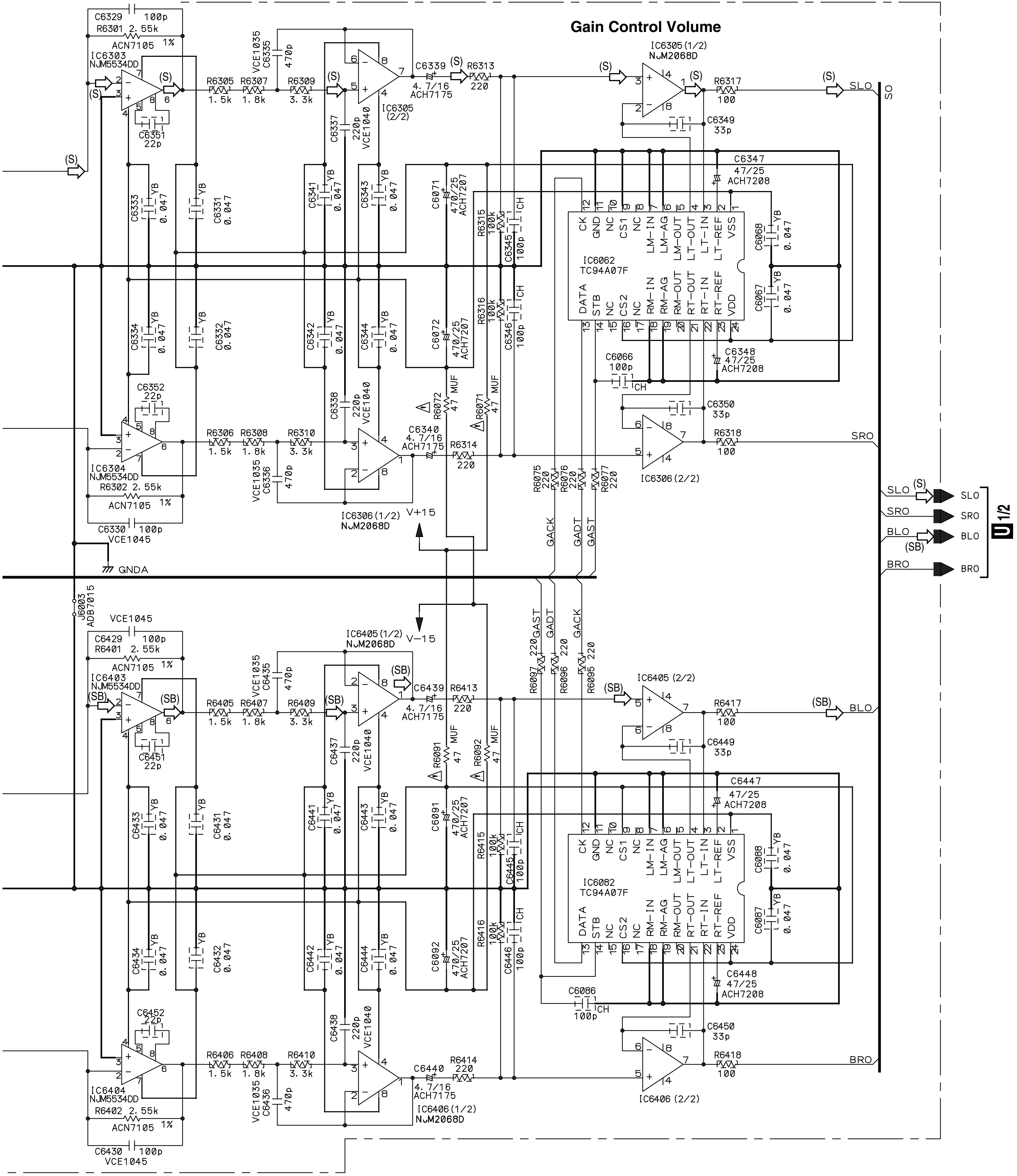
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

U 2/2

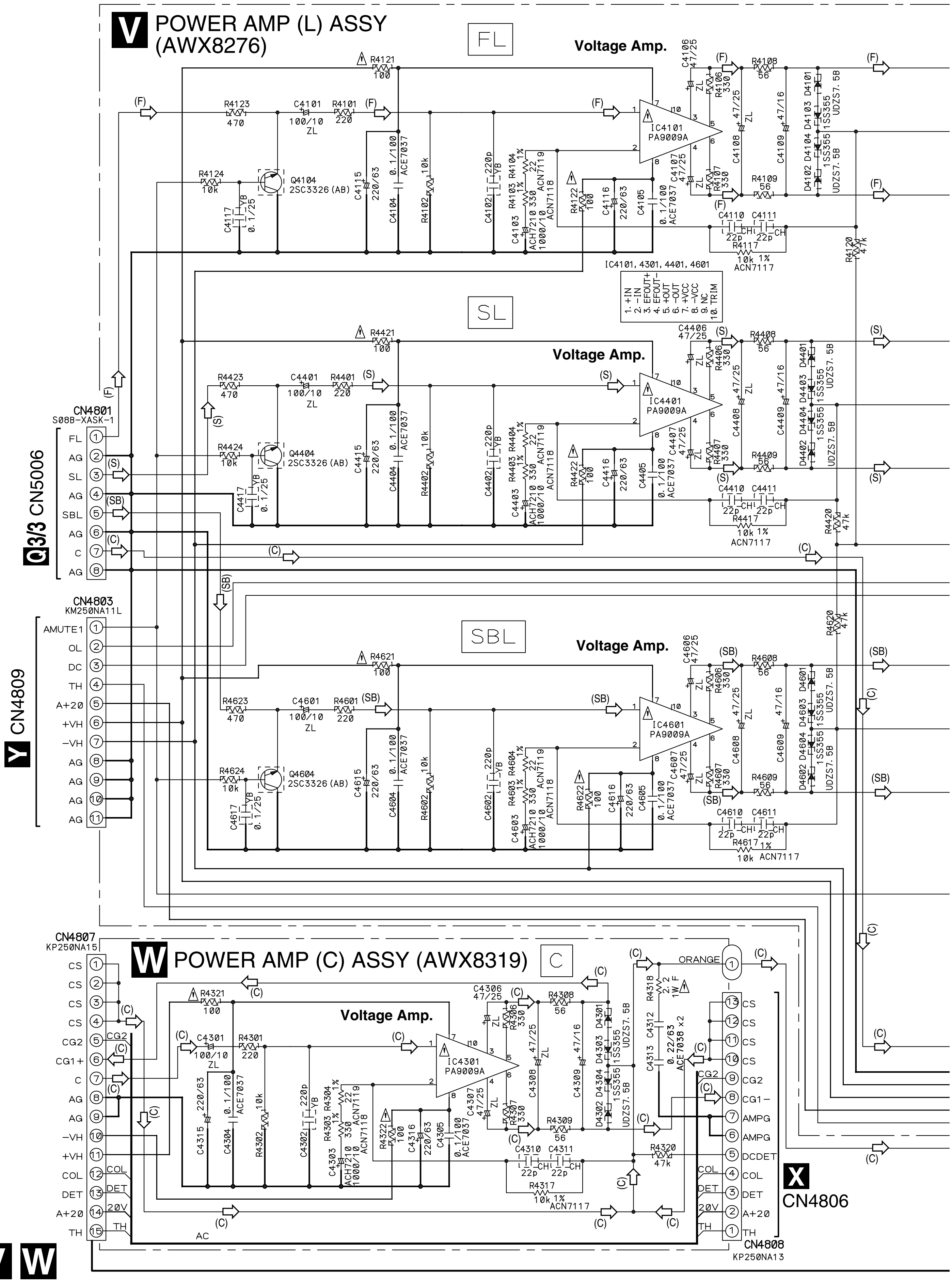
U 2/2 DAC 10 ASSY (AWK7773)

(S) : AUDIO SIGNAL ROUTE (S)

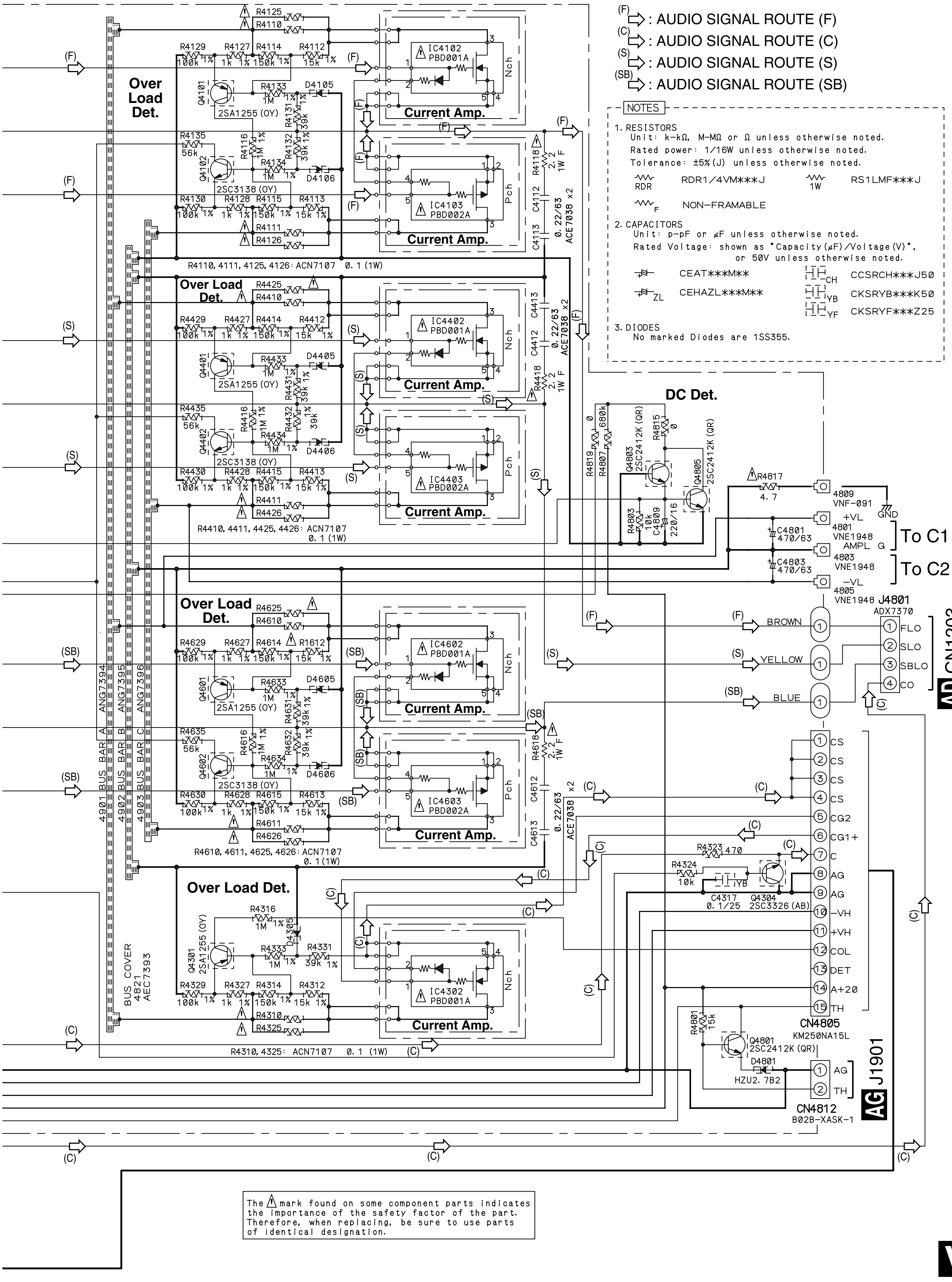
(SB) : AUDIO SIGNAL ROUTE (SB)


Gain Control Volume
VCE1045
C6329 100p
R6301 2.55k
ACN7105 1%
IC6303
NJM5534DD
C6351 22p
R6305 1.5k
R6307 1.8k
R6309 3.3k
VCE1035
C6335 470p
C6337 220p VCE1040
IC6305 (2/2)
C6339 4.7/16 ACH7175
R6313 220
IC6305 (1/2)
NJM2068D
R6317 100
SLO
SO
C6349 33p
C6347 47/25 ACH7208
C6333 0.047 YB
C6331 0.047 YB
C6341 0.047 YB
C6343 0.047 YB
C6071 470/25 ACH7207
R6315 100k
C6345 100p CH
IC6062
TC94A07F
CK GND NC CS1 NC LM-IN LM-AG LM-OUT LT-OUT LT-IN LT-REF VSS
DATA STB NC CS2 NC RM-IN RM-AG RM-OUT RT-OUT RT-IN RT-REF VDD
C6068 0.047 YB
C6067 0.047 YB
C6334 0.047 YB
C6332 0.047 YB
C6342 0.047 YB
C6344 0.047 YB
C6072 470/25 ACH7207
R6316 100k
C6346 100p CH
C6348 47/25 ACH7208
C6066 100p CH
C6350 33p
C6352 22p
C6338 220p VCE1040
R6072 47 MUF
R6071 47 MUF
C6340 4.7/16 ACH7175
R6306 1.5k
R6308 1.8k
R6310 3.3k
R6314 220
R6318 100
SRO
IC6304
NJM5534DD
R6302 2.55k
ACN7105 1%
VCE1035
C6336 470p
R6075 220
R6076 220
R6077 220
IC6306 (2/2)
IC6306 (1/2)
NJM2068D
V+15
C6330 100p
VCE1045
GNDA
GACK GADT GAST
SLO SRO BLO BRO
U 1/2
J6003
ADB7015
VCE1045
C6429 100p
R6401 2.55k
ACN7105 1%
IC6403
NJM5534DD
IC6405 (1/2)
NJM2068D
V-15
VCE1035
C6435 470p
R6405 1.5k
R6407 1.8k
R6409 3.3k
C6451 22p
C6437 220p VCE1040
C6439 4.7/16 ACH7175
R6413 220
R6097 220
R6096 220
R6095 220
IC6405 (2/2)
R6417 100
BLO
C6449 33p
R6091 47 MUF
R6092 47 MUF
C6447 47/25 ACH7208
C6433 0.047 YB
C6431 0.047 YB
C6441 0.047 YB
C6443 0.047 YB
C6091 470/25 ACH7207
R6415 100k
C6445 100p CH
IC6082
TC94A07F
C6088 0.047 YB
C6087 0.047 YB
C6434 0.047 YB
C6432 0.047 YB
C6442 0.047 YB
C6444 0.047 YB
C6092 470/25 ACH7207
R6416 100k
C6446 100p CH
C6448 47/25 ACH7208
C6086 100p CH
C6450 33p
C6452 22p
C6438 220p VCE1040
R6406 1.5k
R6408 1.8k
R6410 3.3k
C6440 4.7/16 ACH7175
R6414 220
R6418 100
BRO
IC6404
NJM5534DD
R6402 2.55k
ACN7105 1%
VCE1035
C6436 470p
IC6406 (1/2)
NJM2068D
IC6406 (2/2)
C6430 100p
VCE1045

3.27 POWER AMP(L) and POWER AMP(C) ASSYS


V POWER AMP (L) ASSY (AWX8276)
FL
SL
SBL
Voltage Amp.
IC4101 PA9009A
IC4401 PA9009A
IC4601 PA9009A
IC4301 PA9009A
Q4104 2SC3326 (AB)
Q4404 2SC3326 (AB)
Q4604 2SC3326 (AB)
IC4101, 4301, 4401, 4601
1. +IN
2. -IN
3. EFOUT+
4. EFOUT-
5. +OUT
6. -OUT
7. +VCC
8. -VCC
9. NC
10. TRIM
R4121 100
R4123 470
C4101 100/10 ZL
R4101 220
R4124 10k
C4117 YB 0.1/25
C4115 220/63
C4104 0.1/100 ACE7037
R4102 10k
C4102 220p YB
R4103 330 1%
R4104 22 1% ACN7119
C4103 ACH7210 1000/10 ACN7118
R4122 100
C4116 220/63
C4105 0.1/100 ACE7037
C4106 47/25 ZL
C4107 47/25 ZL
R4106 330
R4107 330
C4108 47/25 ZL
C4109 47/16
R4108 56
R4109 56
D4101 D4103 1SS355 UDZS7.5B
D4102 D4104 1SS355 UDZS7.5B
C4110 22p CH
C4111 22p CH
R4117 10k 1% ACN7117
R4120 47k
R4421 100
R4423 470
C4401 100/10 ZL
R4401 220
R4424 10k
C4417 YB 0.1/25
C4415 220/63
C4404 0.1/100 ACE7037
R4402 10k
C4402 220p YB
R4403 330 1%
R4404 22 1% ACN7119
C4403 ACH7210 1000/10 ACN7118
R4422 100
C4416 220/63
C4405 0.1/100 ACE7037
C4406 47/25
C4407 47/25 ZL
R4406 330
R4407 330
C4408 47/25 ZL
C4409 47/16
R4408 56
R4409 56
D4401 D4403 1SS355 UDZS7.5B
D4402 D4404 1SS355 UDZS7.5B
C4410 22p CH
C4411 22p CH
R4417 10k 1% ACN7117
R4420 47k
R4621 100
R4623 470
C4601 100/10 ZL
R4601 220
R4624 10k
C4617 YB 0.1/25
C4615 220/63
C4604 0.1/100 ACE7037
R4602 10k
C4602 220p YB
R4603 330 1%
R4604 22 1% ACN7119
C4603 ACH7210 1000/10 ACN7118
R4622 100
C4616 220/63
C4605 0.1/100 ACE7037
C4606 47/25 ZL
C4607 47/25 ZL
R4606 330
R4607 330
C4608 47/25 ZL
C4609 47/16
R4608 56
R4609 56
D4601 D4603 1SS355 UDZS7.5B
D4602 D4604 1SS355 UDZS7.5B
C4610 22p CH
C4611 22p CH
R4617 1% 10k ACN7117
R4620 47k
CN4801 S08B-XASK-1
1 FL
2 AG
3 SL
4 AG
5 SBL
6 AG
7 C
8 AG
Q3/3 CN5006
CN4803 KM250NA11L
1 AMUTE1
2 OL
3 DC
4 TH
5 A+20
6 +VH
7 -VH
8 AG
9 AG
10 AG
11 AG
Y CN4809
(F)
(S)
(SB)
(C)
W POWER AMP (C) ASSY (AWX8319)
C
CN4807 KP250NA15
1 CS
2 CS
3 CS
4 CS
5 CG2
6 CG1+
7 C
8 AG
9 AG
10 -VH
11 +VH
12 COL
13 DET
14 A+20
15 TH
CG2
COL
DET
20V
TH
AC
R4321 100
C4301 100/10 ZL
R4301 220
C4315 220/63
C4304 0.1/100 ACE7037
R4302 10k
C4302 220p YB
R4303 330 1%
R4304 22 1% ACN7119
C4303 ACH7210 1000/10 ACN7118
R4322 100
C4316 220/63
C4305 0.1/100 ACE7037
C4306 47/25 ZL
C4307 47/25 ZL
R4306 330
R4307 330
C4308 47/25 ZL
C4309 47/16
R4308 56
R4309 56
D4301 D4303 1SS355 UDZS7.5B
D4302 D4304 1SS355 UDZS7.5B
C4310 22p CH
C4311 22p CH
R4317 10k 1% ACN7117
R4320 47k
R4318 2.2 1W F
C4312 C4313 0.22/63 ACE7038 x2
ORANGE
CN4808 KP250NA13
13 CS
12 CS
11 CS
10 CS
9 CG2
8 CG1-
7 AMPG
6 AMPG
5 DCDET
4 COL
3 DET
2 A+20
1 TH
X CN4806

V W


Over Load Det.
Current Amp.
IC4102 PBD001A
IC4103 PBD002A
IC4402 PBD001A
IC4403 PBD002A
IC4602 PBD001A
IC4603 PBD002A
IC4302 PBD001A
Nch
Pch
Q4101 2SA1255(OY)
Q4102 2SC3138(OY)
Q4401 2SA1255(OY)
Q4402 2SC3138(OY)
Q4601 2SA1255(OY)
Q4602 2SC3138(OY)
Q4301 2SA1255(OY)
R4110,4111,4125,4126: ACN7107 0.1(1W)
R4410,4411,4425,4426: ACN7107 0.1(1W)
R4610,4611,4625,4626: ACN7107 0.1(1W)
R4310,4325: ACN7107 0.1 (1W)
C4112 C4113 0.22/63 ACE7038 x2
C4413 C4412 0.22/63 ACE7038 x2
C4612 C4613 0.22/63 ACE7038 x2
4901 BUS BAR A ANG7394
4902 BUS BAR B ANG7395
4903 BUS BAR C ANG7396
BUS COVER 4821 AEC7393
DC Det.
Q4803 2SC2412K(QR)
Q4805 2SC2412K(QR)
R4817 4.7
4809 VNF-091
GND
+VL 4801 VNE1948
AMPL G 4803 VNE1948
-VL 4805 VNE1948
C4801 470/63
C4803 470/63
To C1
To C2
J4801 ADX7370
BROWN
YELLOW
BLUE
FLO
SLO
SBLO
CO
AD CN1203
CS
CG2
CG1+
C
AG
-VH
+VH
COL
DET
A+20
TH
CN4805 KM250NA15L
Q4304 2SC3326(AB)
C4317 0.1/25
Q4801 2SC2412K(QR)
D4801 HZU2.7B2
AG J1901
CN4812 B02B-XASK-1

(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)

NOTES

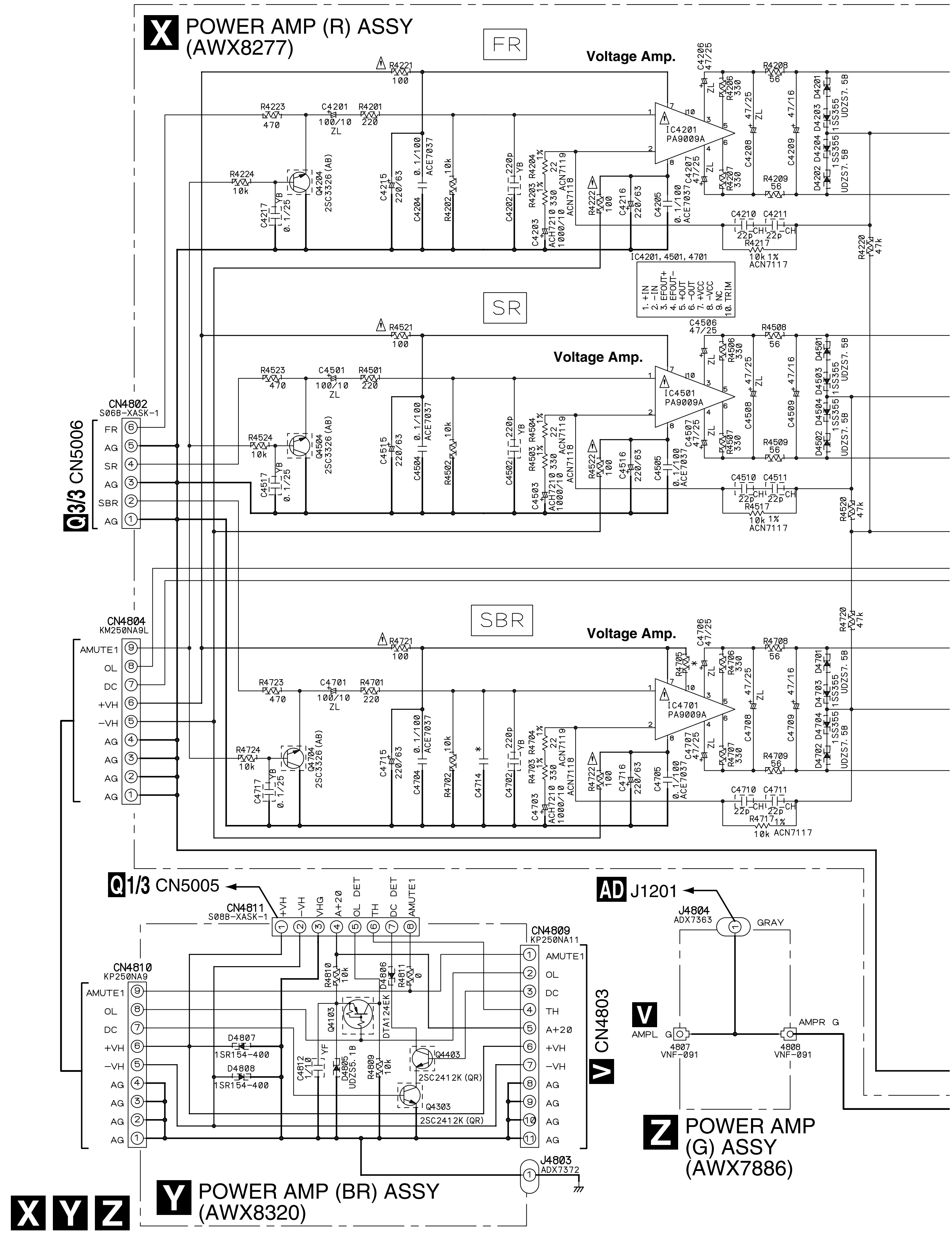
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
RDR RDR1/4VM✻✻✻J
1W RS1LMF✻✻✻J
F NON-FRAMABLE

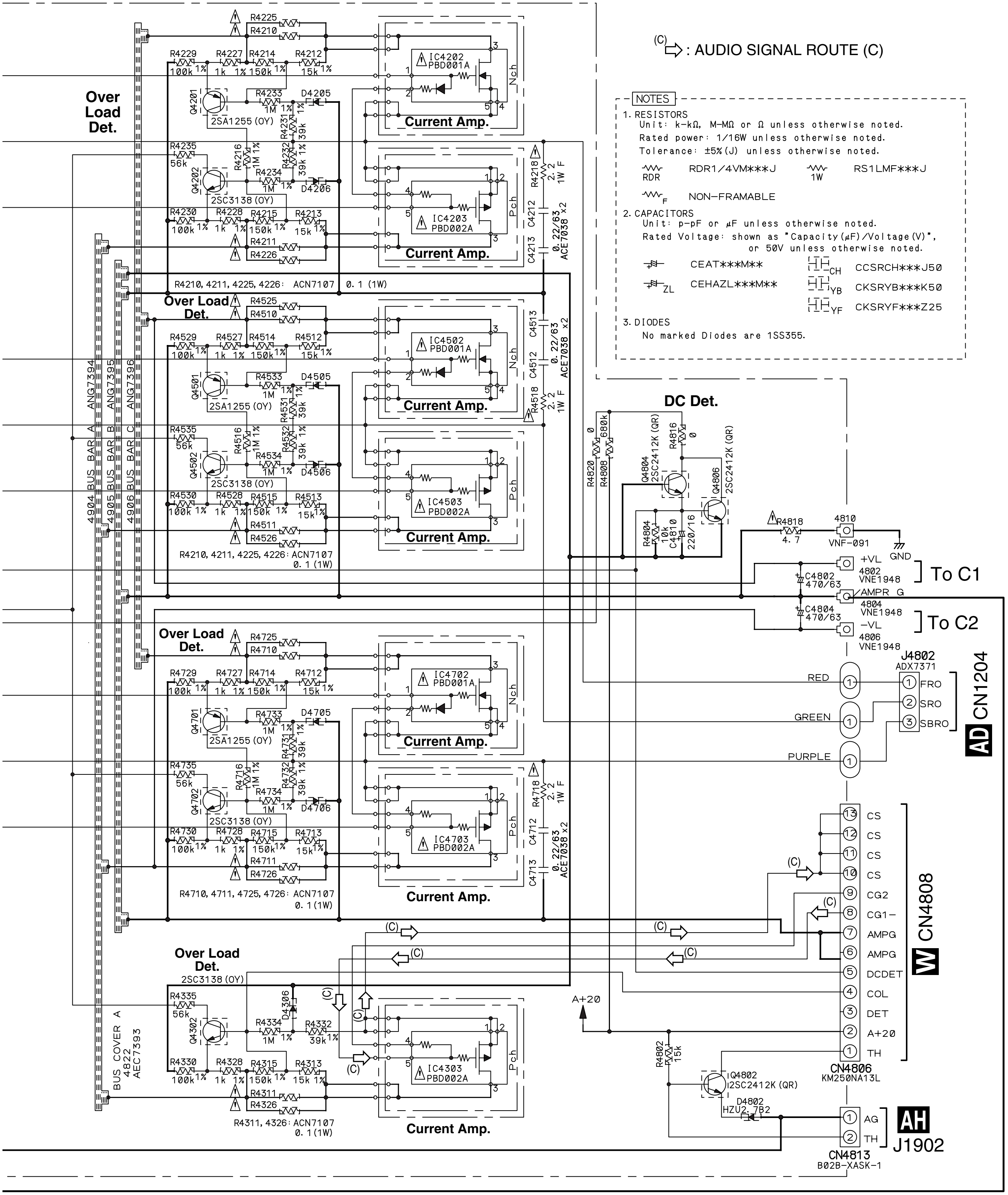
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
CEAT✻✻✻M✻✻
ZL CEHAZL✻✻✻M✻✻
CH CCSRCH✻✻✻J50
YB CKSRYB✻✻✻K50
YF CKSRYF✻✻✻Z25

3. DIODES
No marked Diodes are 1SS355.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

3.28 POWER AMP(R), POWER AMP(BR) and POWER AMP(G) ASSYS


X POWER AMP (R) ASSY
(AWX8277)
FR
SR
SBR
Voltage Amp.
IC4201 PA9009A
IC4501 PA9009A
IC4701 PA9009A
IC4201, 4501, 4701
1. +IN
2. −IN
3. EFOUT+
4. EFOUT−
5. +OUT
6. −OUT
7. +VCC
8. −VCC
9. NC
10. TRIM
Q4204 2SC3326 (AB)
Q4504 2SC3326 (AB)
Q4704 2SC3326 (AB)
R4221 100
R4223 470
C4201 100/10 ZL
R4201 220
R4224 10k
C4217 0.1/25 YB
C4215 220/63
C4204 0.1/100 ACE7037
R4202 10k
C4202 220p YB
R4203 R4204 1% 1%
C4203 1000/10 ACH7210
R4222 100
C4216 220/63
C4205 0.1/100 ACE7037
C4206 47/25 ZL
R4206 330
R4207 330
C4207 47/25 ZL
C4208 47/25 ZL
C4209 47/16
R4208 56
R4209 56
D4201 D4202 UDZS7.5B
D4203 D4204 1SS355
C4210 C4211 22p CH
R4217 10k 1% ACN7117
R4220 47k
ACN7119 ACN7118
CN4802 S06B-XASK-1
FR 6
AG 5
SR 4
AG 3
SBR 2
AG 1
Q3/3 CN5006
CN4804 KM250NA9L
AMUTE1 9
OL 8
DC 7
+VH 6
−VH 5
AG 4
AG 3
AG 2
AG 1
R4520 47k
R4720 47k
R4705 *
C4714 *
Q1/3 CN5005
CN4811 S08B-XASK-1
+VH −VH VHG A+20 OL DET TH DC DET AMUTE1
CN4809 KP250NA11
AMUTE1 OL DC TH A+20 +VH −VH AG AG AG AG
V CN4803
CN4810 KP250NA9
D4807 1SR154-400
D4808 1SR154-400
C4812 1/10 YF
D4805 UDZS5.1B
R4809 10k
R4810 10k
D4806
R4811 0
Q4103 DTA124EK
Q4403 2SC2412K (QR)
Q4303 2SC2412K (QR)
J4803 ADX7372
Y POWER AMP (BR) ASSY
(AWX8320)
AD J1201
J4804 ADX7363
GRAY
V
AMPL G
4807 VNF-091
AMPR G
4808 VNF-091
Z POWER AMP
(G) ASSY
(AWX7886)
X Y Z


A
B
C
D
E
F
Over Load Det.
R4225
R4210
R4229 100k 1%
R4227 1k 1%
R4214 150k 1%
R4212 15k 1%
Q4201 2SA1255 (OY)
R4233 1M 1%
D4205
R4231 39k 1%
R4216 1M 1%
R4232 39k 1%
R4235 56k
Q4202 2SC3138 (OY)
R4234 1M 1%
D4206
R4230 100k 1%
R4228 1k 1%
R4215 150k 1%
R4213 15k 1%
R4211
R4226
IC4202 PBD001A
Nch
Current Amp.
IC4203 PBD002A
Pch
R4218 2.2 1W F
C4212
C4213 0.22/63 ACE7038 x2
R4210, 4211, 4225, 4226: ACN7107 0.1 (1W)
Over Load Det.
R4525
R4510
R4529 100k 1%
R4527 1k 1%
R4514 150k 1%
R4512 15k 1%
Q4501 2SA1255 (OY)
R4533 1M 1%
D4505
R4531 39k
R4516 1M 1%
R4532 39k 1%
R4535 56k
Q4502 2SC3138 (OY)
R4534 1M 1%
D4506
R4530 100k 1%
R4528 1k 1%
R4515 150k 1%
R4513 15k 1%
R4511
R4526
IC4502 PBD001A
IC4503 PBD002A
C4513
C4512 0.22/63 ACE7038 x2
R4518 2.2 1W F
R4210, 4211, 4225, 4226: ACN7107 0.1 (1W)
4904 BUS BAR A ANG7394
4905 BUS BAR B ANG7395
4906 BUS BAR C ANG7396
Over Load Det.
R4725
R4710
R4729 100k 1%
R4727 1k 1%
R4714 150k 1%
R4712 15k 1%
Q4701 2SA1255 (OY)
R4733 1M 1%
D4705
R4731 39k
R4716 1M 1%
R4732 39k 1%
R4735 56k
Q4702 2SC3138 (OY)
R4734 1M 1%
D4706
R4730 100k 1%
R4728 1k 1%
R4715 150k 1%
R4713 15k 1%
R4711
R4726
IC4702 PBD001A
IC4703 PBD002A
R4718 2.2 1W F
C4712
C4713 0.22/63 ACE7038 x2
R4710, 4711, 4725, 4726: ACN7107 0.1 (1W)
Over Load Det.
2SC3138 (OY)
R4335 56k
Q4302
D4306
R4334 1M 1%
R4332 39k 1%
R4330 100k 1%
R4328 1k 1%
R4315 150k 1%
R4313 15k 1%
R4311
R4326
IC4303 PBD002A
R4311, 4326: ACN7107 0.1 (1W)
BUS COVER A 4822 AEC7393
(C)
DC Det.
R4820 0
R4808 680k
R4816 0
Q4804 2SC2412K (QR)
Q4806 2SC2412K (QR)
R4804 10k
C4810 220/16
R4818 4.7
4810 VNF-091
GND
+VL 4802 VNE1948
To C1
C4802 470/63
AMPR G 4804 VNE1948
C4804 470/63
-VL 4806 VNE1948
To C2
J4802 ADX7371
RED
GREEN
PURPLE
① FRO
② SRO
③ SBRO
AD CN1204
⑬ CS
⑫ CS
⑪ CS
⑩ CS
⑨ CG2
⑧ CG1-
⑦ AMPG
⑥ AMPG
⑤ DCDET
④ COL
③ DET
② A+20
① TH
W CN4808
A+20
CN4806 KM250NA13L
R4802 15k
Q4802 2SC2412K (QR)
D4802 HZU2.7B2
① AG
② TH
CN4813 B02B-XASK-1
AH J1902

(C) ⇨ : AUDIO SIGNAL ROUTE (C)

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: ±5%(J) unless otherwise noted.

RDR	RDR1/4VM***J	1W	RS1LMF***J
F	NON-FRAMABLE		

2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

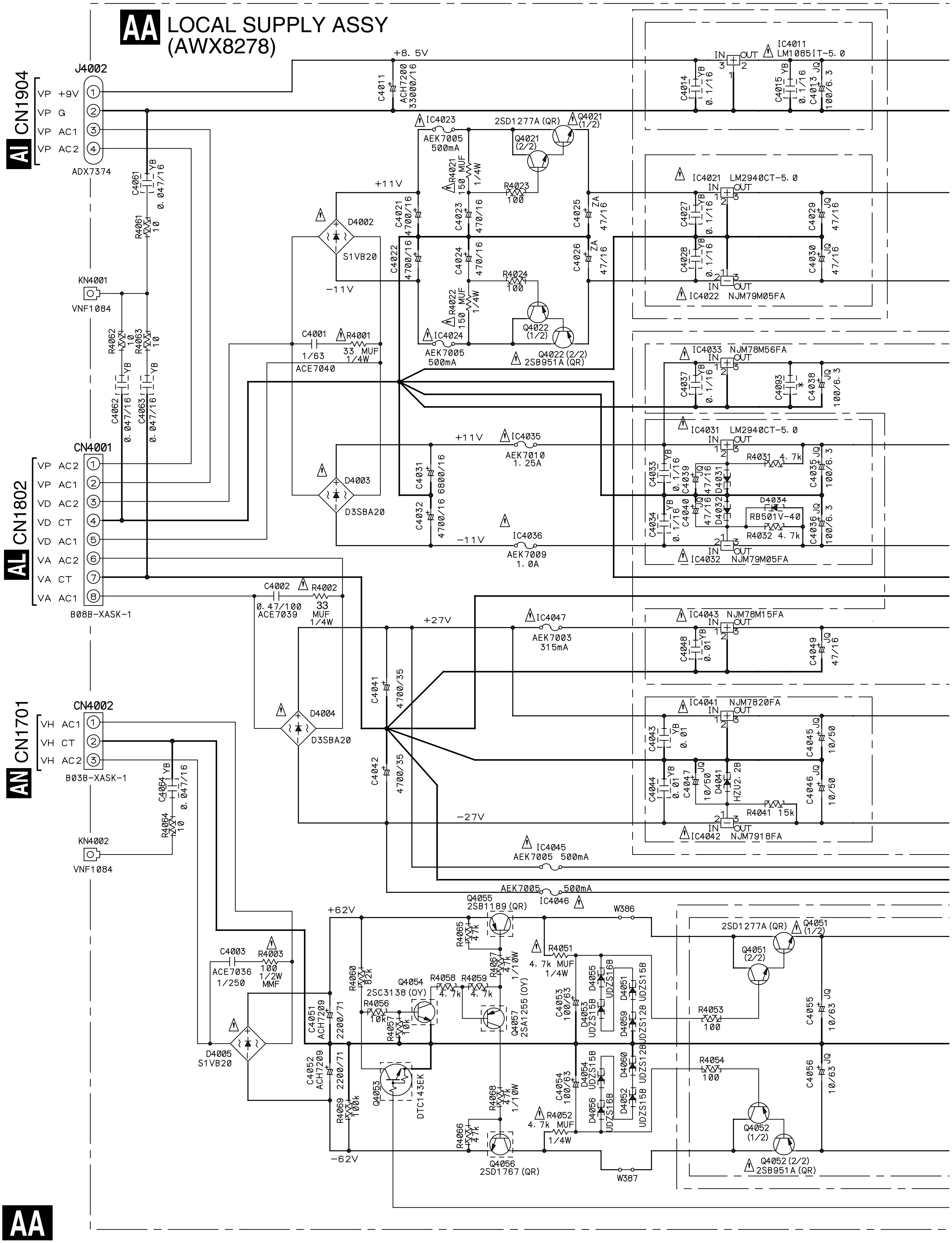
	CEAT***M**	CH	CCSRCH***J50
ZL	CEHAZL***M**	YB	CKSRYB***K50
		YF	CKSRYF***Z25

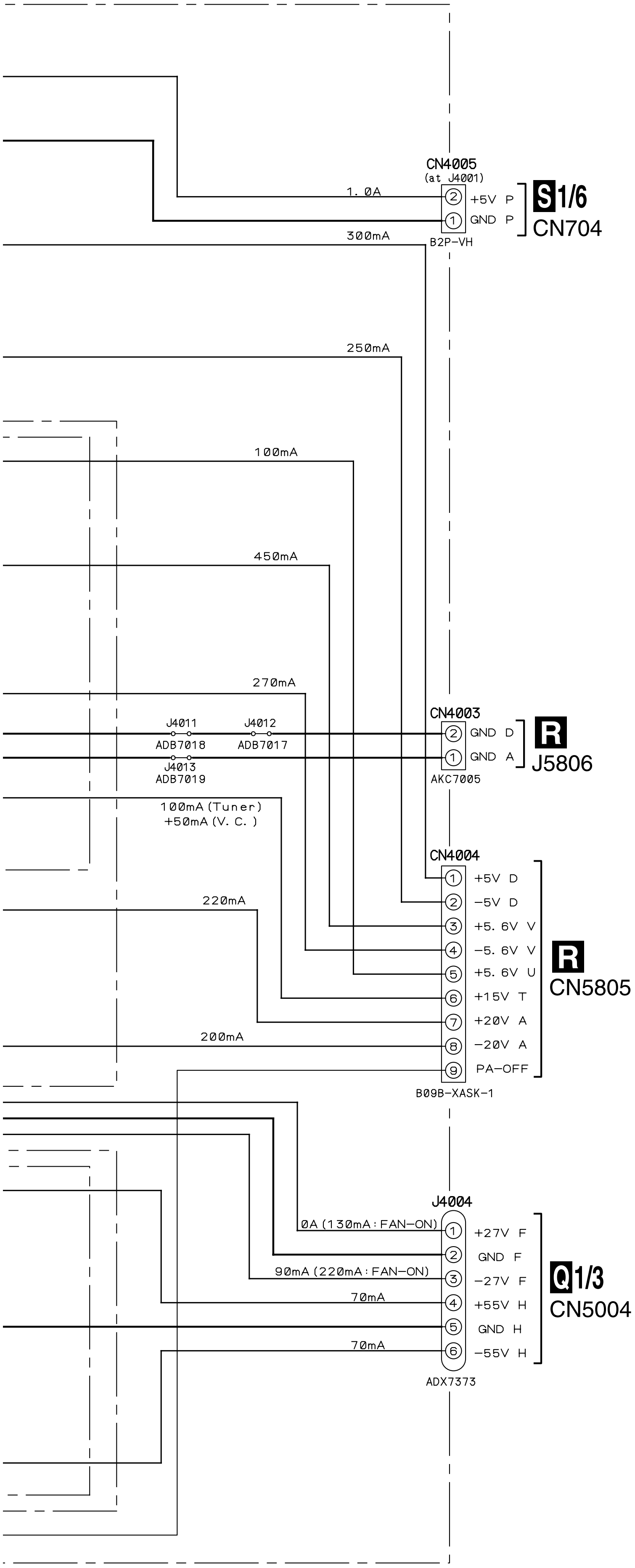
3. DIODES
   No marked Diodes are 1SS355.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

X

3.29 LOCAL SUPPLY ASSY


AA LOCAL SUPPLY ASSY
(AWX8278)
J4002
AI CN1904
VP +9V ①
VP G ②
VP AC1 ③
VP AC2 ④
ADX7374
+8.5V
C4011 ACH7200 33000/16
C4061 YB 0.047/16
R4061 10
KN4001
VNF1084
R4062 10
R4063 10
C4062 YB 0.047/16
C4063 YB 0.047/16
IC4023 AEK7005 500mA
R4021 150 MUF 1/4W
R4023 100
2SD1277A (QR)
Q4021 (1/2)
Q4021 (2/2)
+11V
D4002 S1VB20
-11V
C4021 4700/16
C4022 4700/16
C4023 470/16
C4024 470/16
C4025 ZA 47/16
C4026 ZA 47/16
R4024 100
R4022 150 MUF 1/4W
IC4024 AEK7005 500mA
Q4022 (1/2)
Q4022 (2/2)
2SB951A (QR)
C4001 1/63 ACE7040
R4001 33 MUF 1/4W
IC4011 LM1085IT-5.0
IN OUT
C4014 YB 0.1/16
C4015 YB 0.1/16
C4013 JQ 100/6.3
IC4021 LM2940CT-5.0
C4027 YB 0.1/16
C4028 YB 0.1/16
C4029 JQ 47/16
C4030 JQ 47/16
IC4022 NJM79M05FA
IC4033 NJM78M56FA
C4037 YB 0.1/16
C4093 *
C4038 JQ 100/6.3
IC4031 LM2940CT-5.0
R4031 4.7k
C4033 YB 0.1/16
C4039 JQ 47/16
D4031
D4032
D4034 RB501V-40
C4034 YB 0.1/16
C4040 JQ 47/16
R4032 4.7k
C4035 JQ 100/6.3
C4036 JQ 100/6.3
IC4032 NJM79M05FA
CN4001
AL CN1802
VP AC2 ①
VP AC1 ②
VD AC2 ③
VD CT ④
VD AC1 ⑤
VA AC2 ⑥
VA CT ⑦
VA AC1 ⑧
B08B-XASK-1
+11V
IC4035 AEK7010 1.25A
D4003 D3SBA20
C4031 6800/16
C4032 4700/16
-11V
IC4036 AEK7009 1.0A
C4002 0.47/100 ACE7039
R4002 33 MUF 1/4W
+27V
IC4047 AEK7003 315mA
IC4043 NJM78M15FA
C4048 YB 0.01
C4049 JQ 47/16
D4004 D3SBA20
C4041 4700/35
C4042 4700/35
IC4041 NJM7820FA
C4043 YB 0.01
C4045 JQ 10/50
C4044 YB 0.01
C4047 JQ 10/50
D4041 HZU2.2B
C4046 JQ 10/50
R4041 15k
-27V
IC4042 NJM7918FA
CN4002
AN CN1701
VH AC1 ①
VH CT ②
VH AC2 ③
B03B-XASK-1
C4064 YB 0.047/16
R4064 10
KN4002
VNF1084
IC4045 AEK7005 500mA
AEK7005 500mA
IC4046
Q4055 2SB1189 (QR)
W386
+62V
R4065 4.7k
R4067 47k 1/10W
R4051 4.7k MUF 1/4W
C4003 ACE7036 1/250
R4003 100 1/2W MMF
R4060 82k
Q4054 2SC3138 (OY)
R4058 4.7k
R4059 4.7k
R4056 10k
R4057 10k
Q4057 2SA1255 (OY)
C4053 100/63
D4053 UDZS15B
D4055 UDZS16B
D4051 UDZS15B
D4059 UDZS12B
R4053 100
2SD1277A (QR)
Q4051 (1/2)
Q4051 (2/2)
C4055 JQ 10/63
D4005 S1VB20
C4051 ACH7209 2200/71
C4052 ACH7209 2200/71
R4069 100k
Q4053
DTC143EK
R4068 47k 1/10W
C4054 100/63
D4054 UDZS15B
D4056 UDZS16B
D4060 UDZS12B
D4052 UDZS15B
R4054 100
C4056 JQ 10/63
R4052 4.7k MUF 1/4W
R4066 4.7k
Q4056 2SD1767 (QR)
W387
-62V
Q4052 (1/2)
Q4052 (2/2)
2SB951A (QR)
AA


CN4005
(at J4001)
1. 0A
②
+5V P
①
GND P
B2P-VH
S1/6
CN704
300mA
250mA
100mA
450mA
270mA
CN4003
J4011
J4012
ADB7018
ADB7017
J4013
ADB7019
②
GND D
①
GND A
AKC7005
R
J5806
100mA (Tuner)
+50mA (V. C.)
CN4004
①
+5V D
②
-5V D
③
+5. 6V V
④
-5. 6V V
⑤
+5. 6V U
⑥
+15V T
⑦
+20V A
⑧
-20V A
⑨
PA-OFF
B09B-XASK-1
R
CN5805
220mA
200mA
J4004
0A (130mA : FAN-ON)
①
+27V F
②
GND F
90mA (220mA : FAN-ON)
③
-27V F
70mA
④
+55V H
⑤
GND H
70mA
⑥
-55V H
ADX7373
Q1/3
CN5004

CAUTION : FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE
NO. 491.315 FOR IC4047
MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE
NO. 491.500 FOR IC4023 AND
IC4024 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE
NO. 491.500 FOR IC4045 AND
IC4046 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE
NO. 491001 FOR IC4036
MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE
NO. 4911.25 FOR IC4035
MFD, BY LITTELFUSE INC.

NOTES

1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

MUF RD1/4MUF***J MMF RD1/2MMF***J

2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)",
or 50V unless otherwise noted.

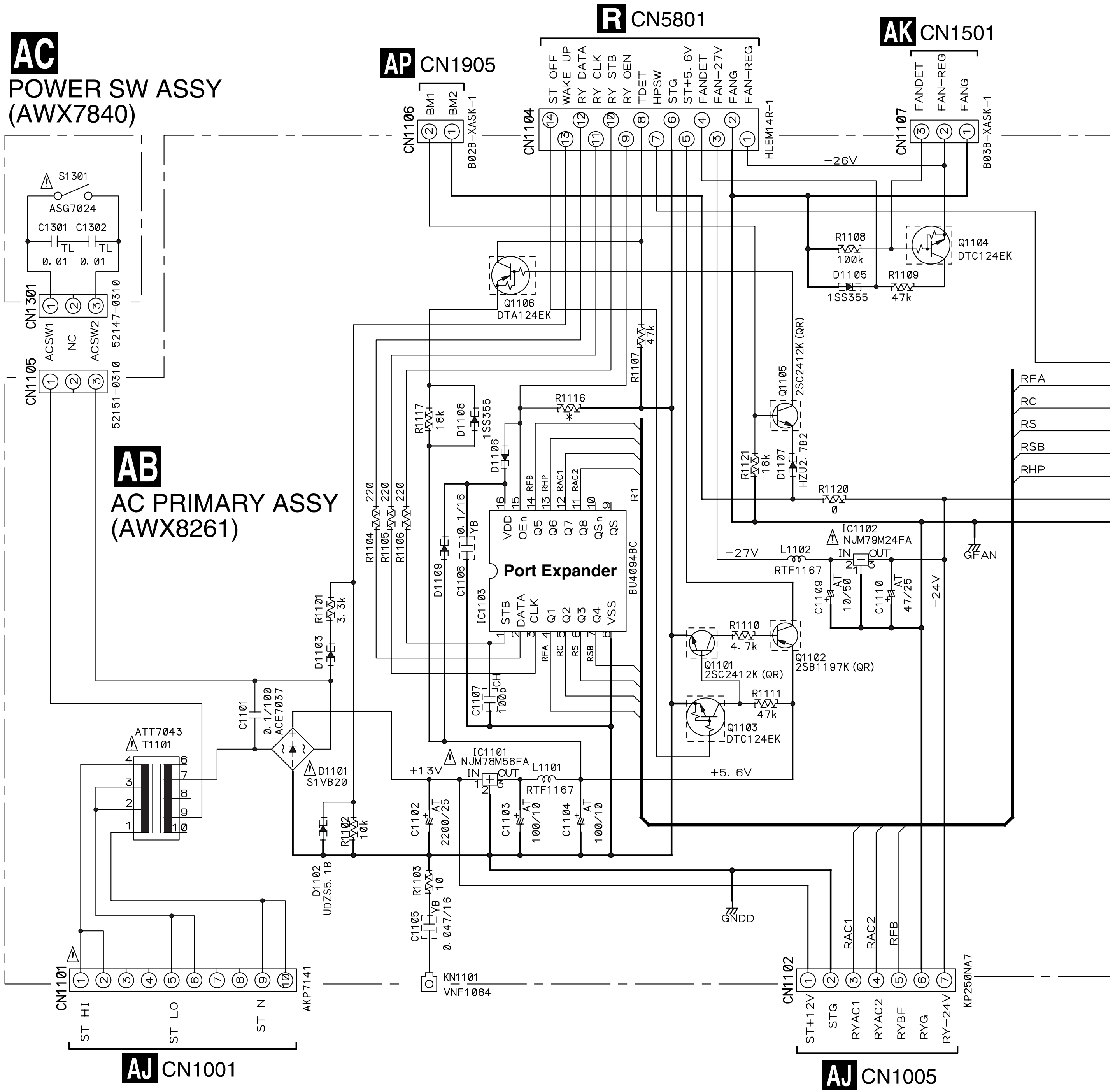
YB CKSRYB***K** CEAT***M**
ZA CEHAZA***M**
JQ CEJQ***M**

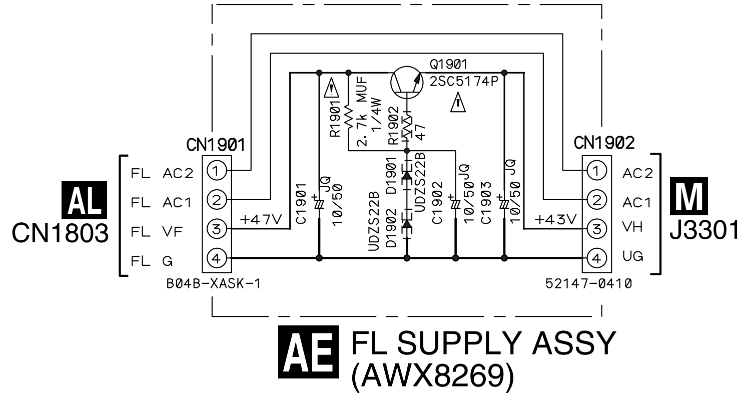
3. DIODES
No marked Diodes are 1SS355.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

AA

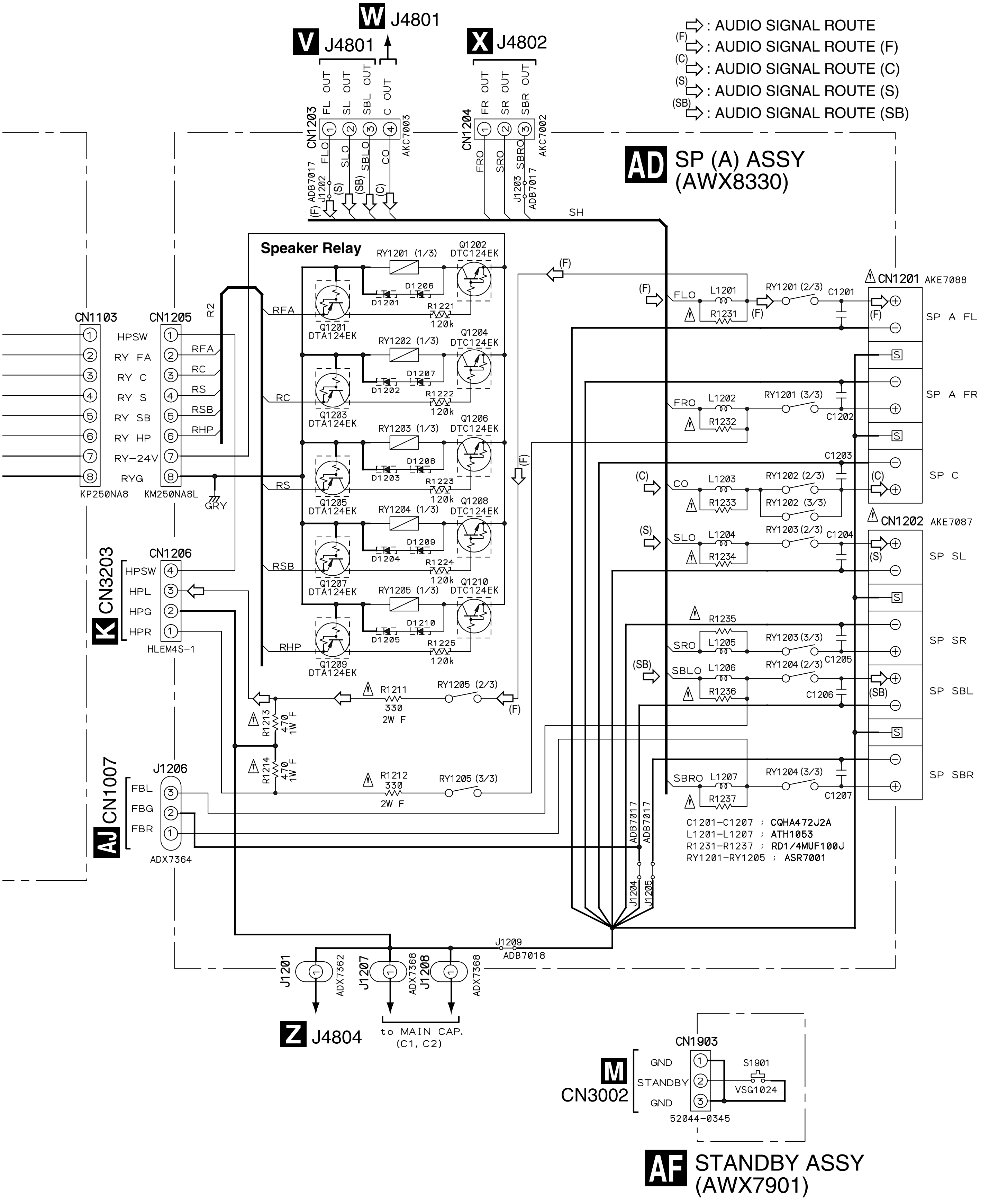
3.30 AC PRIMARY, POWER SW, SP(A), FL SUPPLY and STANDBY ASSYS


AC
POWER SW ASSY
(AWX7840)
S1301
ASG7024
C1301 C1302
TL TL
0.01 0.01
CN1301
ACSW1 NC ACSW2
52147-0310
CN1105
52151-0310
AB
AC PRIMARY ASSY
(AWX8261)
AP CN1905
CN1106
BM1 BM2
B02B-XASK-1
R CN5801
CN1104
ST OFF
WAKE UP
RY DATA
RY CLK
RY STB
RY OEN
TDET
HPSW
STG
ST+5.6V
FANDET
FAN-27V
FANG
FAN-REG
HLEM14R-1
AK CN1501
CN1107
FANDET
FAN-REG
FANG
B03B-XASK-1
-26V
R1108
100k
D1105
1SS355
R1109
47k
Q1104
DTC124EK
Q1106
DTA124EK
R1107
47k
R1116
R1117
18k
D1108
1SS355
D1106
Q1105
2SC2412K (QR)
R1121
18k
D1107
HZU2.7B2
R1120
0
RFA
RC
RS
RSB
RHP
R1104 220
R1105 220
R1106 220
D1109
C1106
0.1/16
YB
IC1103
Port Expander
BU4094BC
VDD OEn Q5 Q6 Q7 Q8 QSn QS
STB DATA CLK Q1 Q2 Q3 Q4 VSS
RFB RHP RAC1 RAC2
R1
-27V
L1102
RTF1167
IC1102
NJM79M24FA
IN OUT
C1109
AT
10/50
C1110
AT
47/25
-24V
GFAN
R1101
3.3k
D1103
R1110
4.7k
Q1101
2SC2412K (QR)
Q1102
2SB1197K (QR)
R1111
47k
Q1103
DTC124EK
C1107
CH
100p
C1101
0.1/100
ACE7037
ATT7043
T1101
D1101
S1VB20
+13V
IC1101
NJM78M56FA
IN OUT
L1101
RTF1167
+5.6V
C1102
AT
2200/25
C1103
AT
100/10
C1104
AT
100/10
R1102
10k
D1102
UDZS5.1B
R1103
10
C1105
YB
0.047/16
GNDD
KN1101
VNF1084
CN1101
AKP7141
ST HI
ST LO
ST N
AJ CN1001
CN1102
KP250NA7
RAC1 RAC2 RFB
ST+12V
STG
RYAC1
RYAC2
RYBF
RYG
RY-24V
AJ CN1005


Q1901
2SC5174P
R1901
2.7k MUF
1/4W
R1902
47
D1901
UDZS22B
D1902
UDZS22B
C1901
JQ
10/50
C1902
JQ
10/50
C1903
JQ
10/50
CN1901
FL AC2
FL AC1
FL VF
FL G
B04B-XASK-1
AL
CN1803
+47V
+43V
CN1902
AC2
AC1
VH
UG
52147-0410
M
J3301
AE
FL SUPPLY ASSY
(AWX8269)

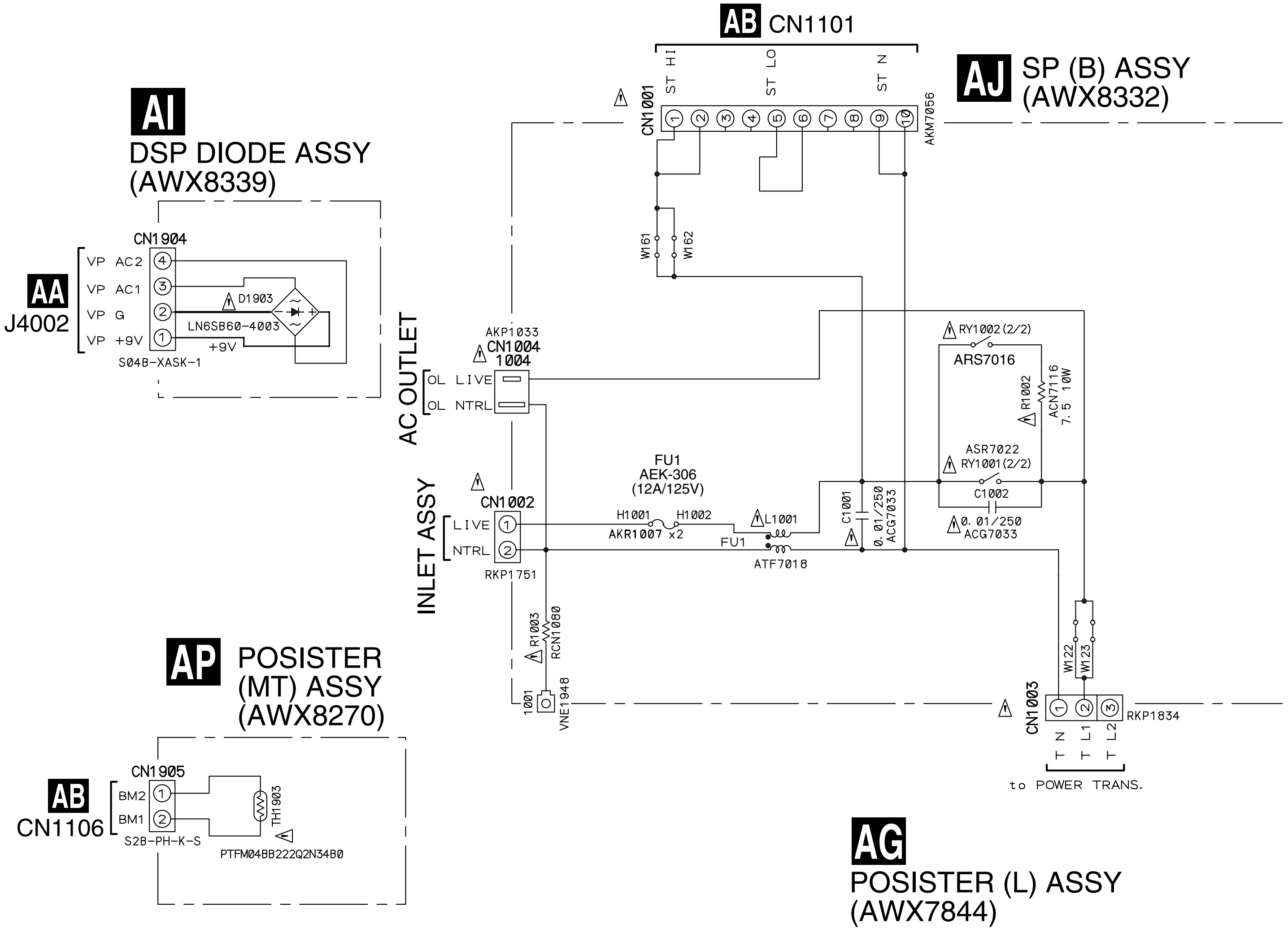
NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
MUF:RD1/4MUF
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
AT:CEAT, JQ:CEJQ
3. DIODES
No marked Diodes are 1SS355.
4. VOLTAGE
Indicated in DC Voltage.

AB AC AE

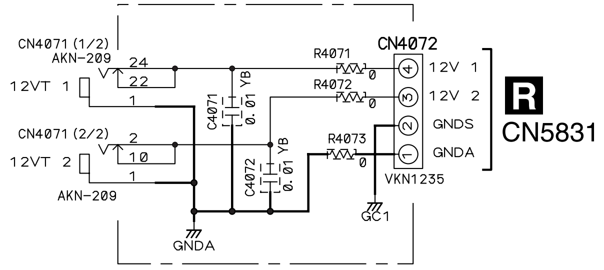

W J4801
V J4801
X J4802
: AUDIO SIGNAL ROUTE
(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)
CN1203 AKC7003
FL OUT
SL OUT
SBL OUT
C OUT
FLO SLO SBLO CO
J1202 ADB7017
CN1204 AKC7002
FR OUT
SR OUT
SBR OUT
FRO SRO SBRO
J1203 ADB7017
SH
AD SP (A) ASSY
(AWX8330)
Speaker Relay
RY1201 (1/3)
Q1202 DTC124EK
D1206
D1201
R1221 120k
Q1201 DTA124EK
RY1202 (1/3)
Q1204 DTC124EK
D1207
D1202
R1222 120k
Q1203 DTA124EK
RY1203 (1/3)
Q1206 DTC124EK
D1208
D1203
R1223 120k
Q1205 DTA124EK
RY1204 (1/3)
Q1208 DTC124EK
D1209
D1204
R1224 120k
Q1207 DTA124EK
RY1205 (1/3)
Q1210 DTC124EK
D1210
D1205
R1225 120k
Q1209 DTA124EK
R2
RFA RC RS RSB RHP
CN1103
HPSW
RY FA
RY C
RY S
RY SB
RY HP
RY-24V
RYG
KP250NA8
CN1205
KM250NA8L
GRY
CN1206
K CN3203
HPSW HPL HPG HPR
HLEM4S-1
R1211 330 2W F
RY1205 (2/3)
R1213 470 1W F
R1214 470 1W F
R1212 330 2W F
RY1205 (3/3)
AJ CN1007
J1206
FBL FBG FBR
ADX7364
CN1201 AKE7088
FLO L1201 R1231
RY1201 (2/3)
C1201
SP A FL
FRO L1202 R1232
RY1201 (3/3)
C1202
SP A FR
C1203
CO L1203 R1233
RY1202 (2/3)
RY1202 (3/3)
SP C
CN1202 AKE7087
SLO L1204 R1234
RY1203 (2/3)
C1204
SP SL
R1235
SRO L1205
RY1203 (3/3)
C1205
SP SR
SBLO L1206 R1236
RY1204 (2/3)
C1206
SP SBL
SBRO L1207 R1237
RY1204 (3/3)
C1207
SP SBR
C1201–C1207 ; CQHA472J2A
L1201–L1207 ; ATH1053
R1231–R1237 ; RD1/4MUF100J
RY1201–RY1205 ; ASR7001
J1204 ADB7017
J1205 ADB7017
J1209 ADB7018
J1201 ADX7362
J1207 ADX7368
J1208 ADX7368
Z J4804
to MAIN CAP. (C1, C2)
CN1903
M CN3002
GND STANDBY GND
S1901 VSG1024
52044-0345
AF STANDBY ASSY
(AWX7901)
A B C D E F

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

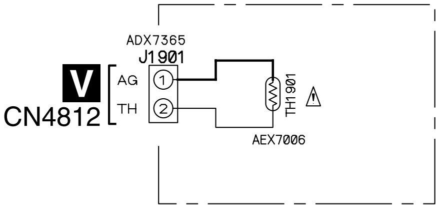
3.31 POSISTER (L) (R) (MT), DSP DIODE, SP (B), DIODE, FUSE, TARANS (A) (B) and 12V TRIGGER


AB CN1101
AJ SP (B) ASSY (AWX8332)
CN1001
ST HI
ST LO
ST N
AKM7056
W161
W162
AI DSP DIODE ASSY (AWX8339)
CN1904
AA J4002
VP AC2
VP AC1
VP G
VP +9V
D1903
LN6SB60-4003
+9V
S04B-XASK-1
AC OUTLET
AKP1033
CN1004
1004
OL LIVE
OL NTRL
RY1002(2/2)
ARS7016
R1002
ACN7116
7.5 10W
INLET ASSY
CN1002
LIVE
NTRL
RKP1751
FU1
AEK-306
(12A/125V)
H1001
H1002
AKR1007 ×2
FU1
L1001
ATF7018
C1001
0.01/250
ACG7033
ASR7022
RY1001(2/2)
C1002
0.01/250
ACG7033
R1003
RCN1080
1001
VNE1948
W122
W123
CN1003
RKP1834
T N
T L1
T L2
to POWER TRANS.
AP POSISTER (MT) ASSY (AWX8270)
AB CN1106
CN1905
BM2
BM1
S2B-PH-K-S
TH1903
PTFM04BB222Q2N34B0

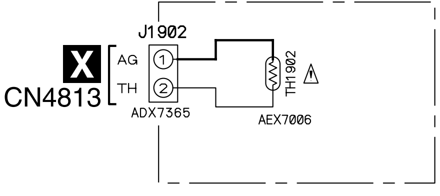
AQ 12V TRIGGER ASSY (AWX8321)


CN4071(1/2)
AKN-209
12VT 1
24
22
1
CN4071(2/2)
12VT 2
2
10
1
AKN-209
C4071
0.01 YB
C4072
0.01 YB
R4071
0
R4072
0
R4073
0
CN4072
12V 1
12V 2
GNDS
GNDA
VKN1235
GC1
GNDA
R CN5831

AG POSISTER (L) ASSY (AWX7844)


ADX7365
J1901
V CN4812
AG
TH
TH1901
AEX7006

AH POSISTER (R) ASSY (AWX7846)


J1902
X CN4813
AG
TH
ADX7365
TH1902
AEX7006

NOTES

1. RESISTORS
 Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
 Rated power: 1/16W unless otherwise noted.
 Tolerance: ±5%(J) unless otherwise noted.
 MUF :RD1/4MUF MMF :RD1/2MMF

2. CAPACITORS
 Unit: p-pF or μF unless otherwise noted.
 Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
 HA:CQHA, AT:CEAT
 JQ:CEJQ

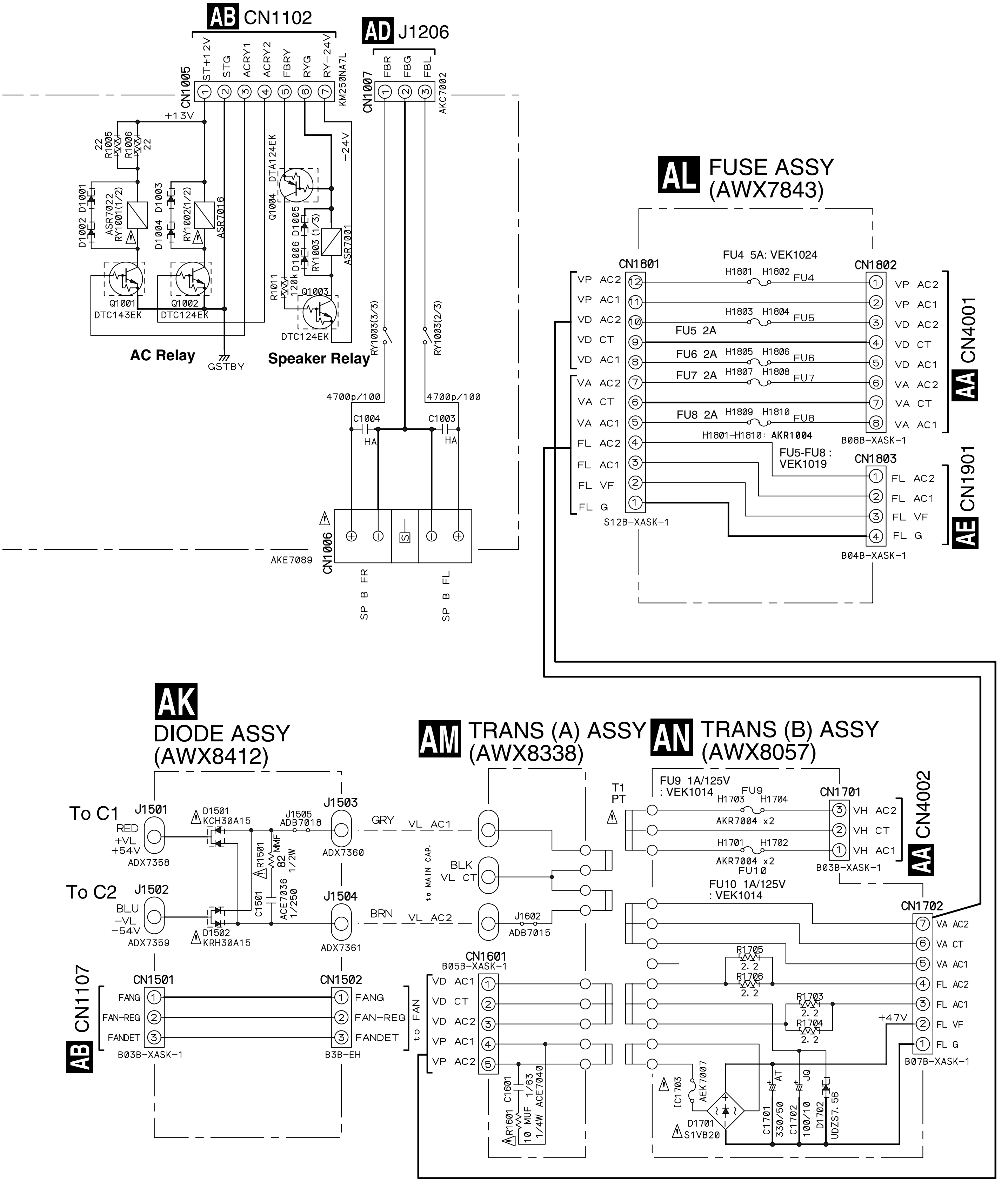
3. DIODES
 No marked Diodes are 1SS355.

4. VOLTAGE
 Indicated in DC Voltage.

※Parts or parts block marked by "*" or "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

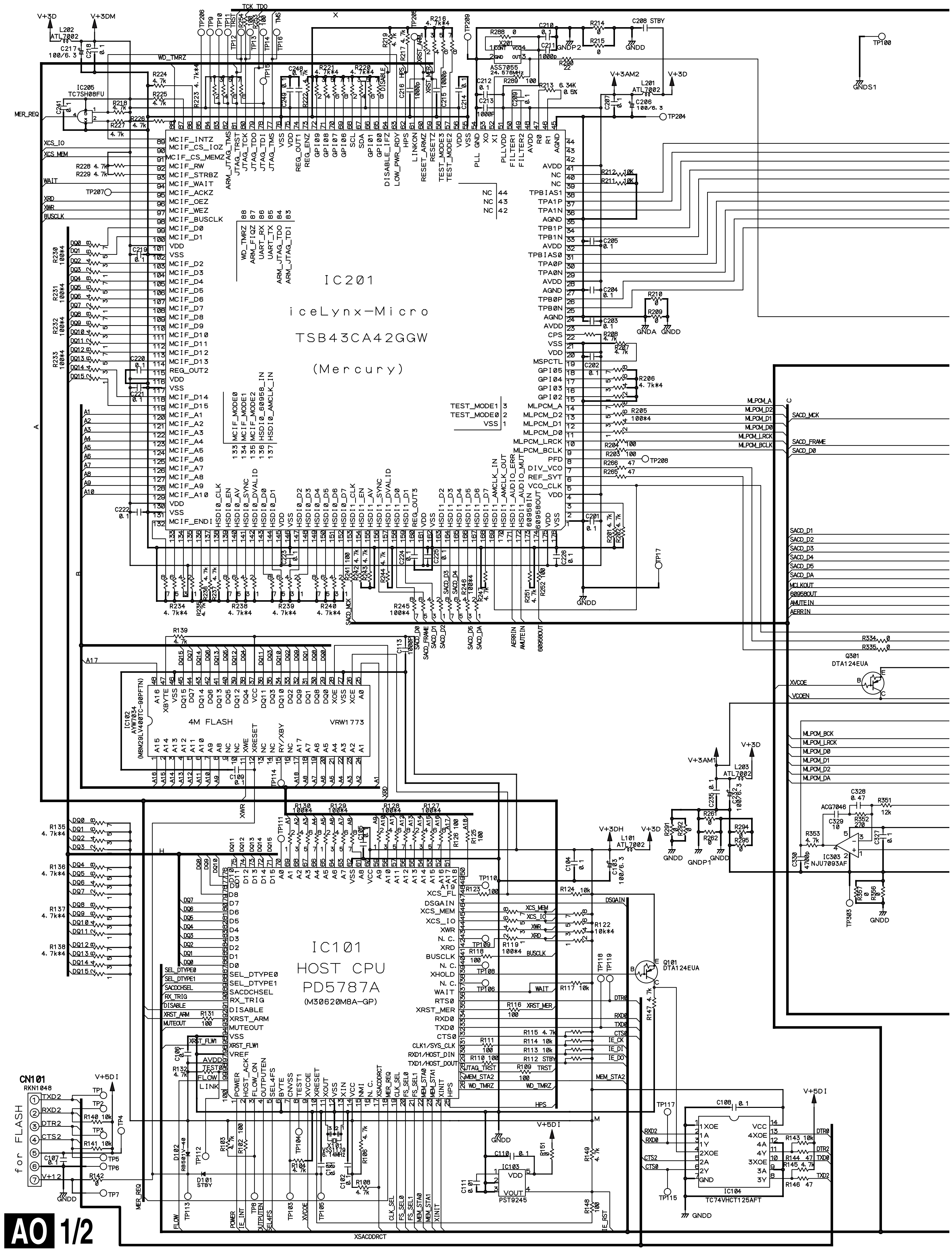
AG AH AI AJ AP AQ

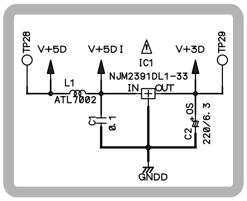

AB CN1102
AD J1206
CN1005
ST+12V
STG
ACRY1
ACRY2
FBRY
RYG
RY-24V
KM250NA7L
CN1007
FBR
FBG
FBL
AKC7002
+13V
-24V
R1005 22
R1006 22
D1001
D1002
ASR7022
RY1001(1/2)
D1003
D1004
RY1002(1/2)
ASR7016
Q1004 DTA124EK
D1005
D1006
RY1003 (1/3)
ASR7001
R1011 120k
Q1001 DTC143EK
Q1002 DTC124EK
Q1003 DTC124EK
AC Relay
GSTBY
Speaker Relay
RY1003(3/3)
RY1003(2/3)
4700p/100
C1004
C1003
HA
CN1006
AKE7089
SP B FR
SP B FL
AL FUSE ASSY (AWX7843)
FU4 5A: VEK1024
CN1801
CN1802
H1801 H1802 FU4
H1803 H1804 FU5
FU5 2A
FU6 2A H1805 H1806 FU6
FU7 2A H1807 H1808 FU7
FU8 2A H1809 H1810 FU8
H1801–H1810: AKR1004
FU5-FU8 : VEK1019
VP AC2
VP AC1
VD AC2
VD CT
VD AC1
VA AC2
VA CT
VA AC1
FL AC2
FL AC1
FL VF
FL G
S12B-XASK-1
B08B-XASK-1
CN1803
B04B-XASK-1
AA CN4001
AE CN1901
AK DIODE ASSY (AWX8412)
AM TRANS (A) ASSY (AWX8338)
AN TRANS (B) ASSY (AWX8057)
To C1
J1501
RED +VL +54V
ADX7358
To C2
J1502
BLU -VL -54V
ADX7359
D1501 KCH30A15
D1502 KRH30A15
J1505 ADB7018
R1501 82 1/2W MMF
C1501 ACE7036 1/250
J1503 ADX7360
J1504 ADX7361
GRY VL AC1
BRN VL AC2
to MAIN CAP.
BLK VL CT
J1602 ADB7015
CN1501
CN1502
FANG
FAN-REG
FANDET
B03B-XASK-1
B3B-EH
AB CN1107
to FAN
CN1601 B05B-XASK-1
VD AC1
VD CT
VD AC2
VP AC1
VP AC2
R1601 10 MUF 1/4W
C1601 1/63 ACE7040
T1 PT
FU9 1A/125V : VEK1014
H1703 H1704
AKR7004 x2
H1701 H1702
FU10 1A/125V : VEK1014
CN1701
VH AC2
VH CT
VH AC1
B03B-XASK-1
AA CN4002
CN1702
VA AC2
VA CT
VA AC1
FL AC2
FL AC1
FL VF
FL G
B07B-XASK-1
R1705 2.2
R1706 2.2
R1703 2.2
R1704 2.2
+47V
IC1703 AEK7007
D1701 S1VB20
C1701 330/50 AT
C1702 100/10 JQ
D1702 UDZS7.5B

• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

3.32 1394 MODULE(1/2) ASSY

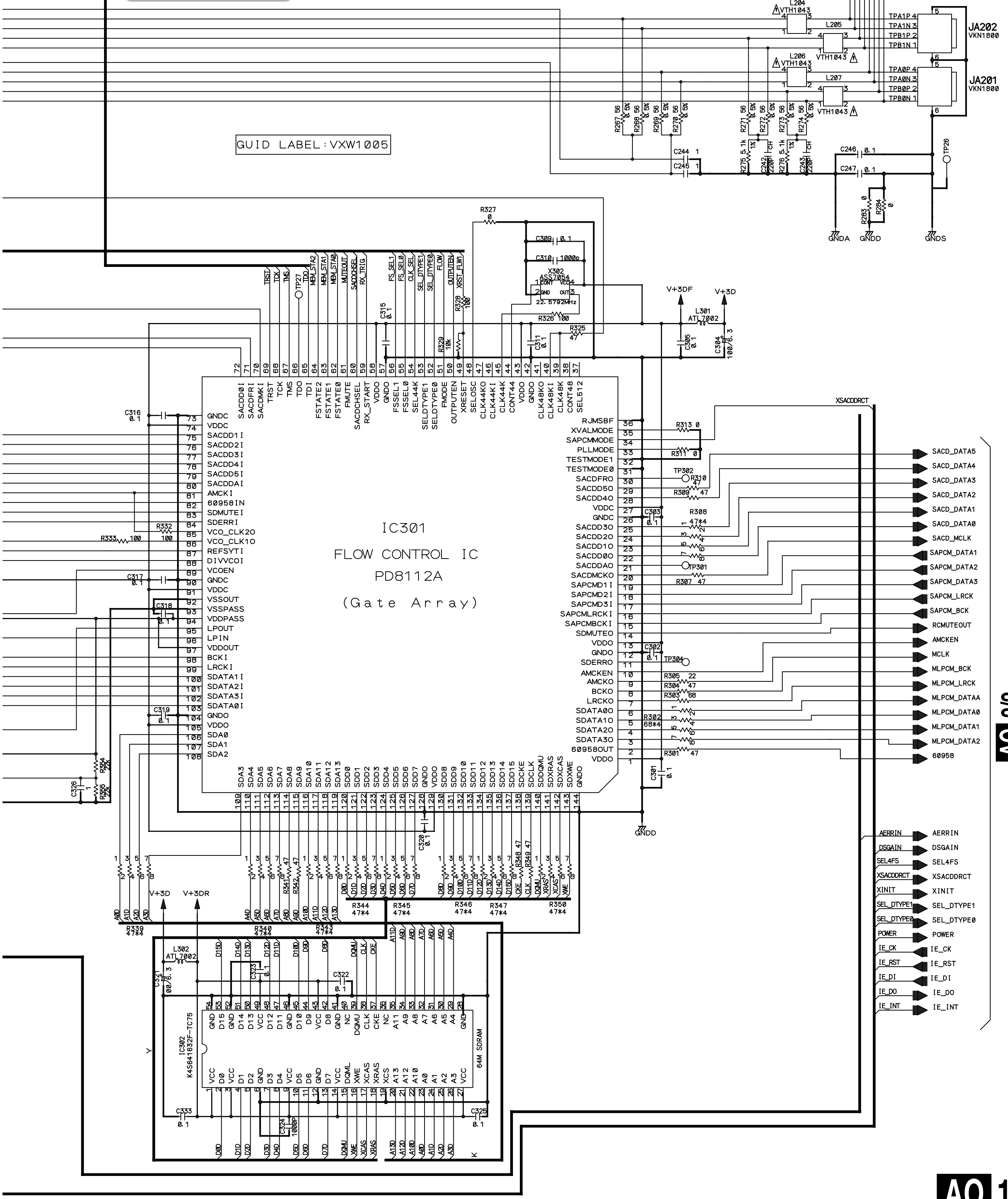

IC201
iceLynx-Micro
TSB43CA42GGW
(Mercury)
IC101
HOST CPU
PD5787A
(M30620M8A-GP)
IC102
AYW7034
(MBM29LV400TC-90PFTN)
4M FLASH
VRW1773
IC205
TC7SH08FU
IC103
PST9245
IC104
TC74VHCT125AFT
IC303
NJU7093AF
Q301
DTA124EUA
Q101
DTA124EUA
X201
ASS7055
24.576MHz
CN101
RKN1048
for FLASH
TXD2
RXD2
DTR2
CTS2
V+12
GNDD
D101
STBY
D102
RB501V-40
L201
ATL7002
L202
ATL7002
L203
ATL7002
L101
ATL7002
V+3D
V+3DM
V+3AM2
V+3AM1
V+3DH
V+5DI
MER_REQ
XCS_IO
XCS_MEM
WAIT
XRD
XWR
BUSCLK
WD_TMRZ
SACD_MCK
SACD_FRAME
SACD_D0
SACD_D1
SACD_D2
SACD_D3
SACD_D4
SACD_D5
SACD_DA
MCLKOUT
60958OUT
AMUTEIN
AERRIN
XVCOE
VCOEN
MLPCM_A
MLPCM_D2
MLPCM_D1
MLPCM_D0
MLPCM_LRCK
MLPCM_BCLK
MLPCM_BCK
MLPCM_DA
XSACDDRCT
GNDS1
GNDP1
GNDP2
GNDA
GNDD


TP28
V+5D
V+5DI
IC1
NJM2391DL1-33
IN
OUT
V+3D
TP29
L1
ATL7002
C1 0.1
C2 220/6.3 OS
GNDD

⚠ IMPORTANT PARTS FOR SAFETY
Indicated in "STBY" parts are STANDBY.
CAPACITORS
Unit : p-pF or μF unless otherwise noted.
220/6.3:ACH7195   100/6.3:CEVL101M6R3
┤├CH :CCSRCH
┤├ :CKSRYB unless otherwise noted.
RESISTORS
Unit : k-kΩ, M-MΩ or Ω unless otherwise noted.
Reted power : 1/16W unless otherwise noted.
Tolerance : (J)±5% unless otherwise noted.

AO 1/2

1394 MODULE (AXQ7251)

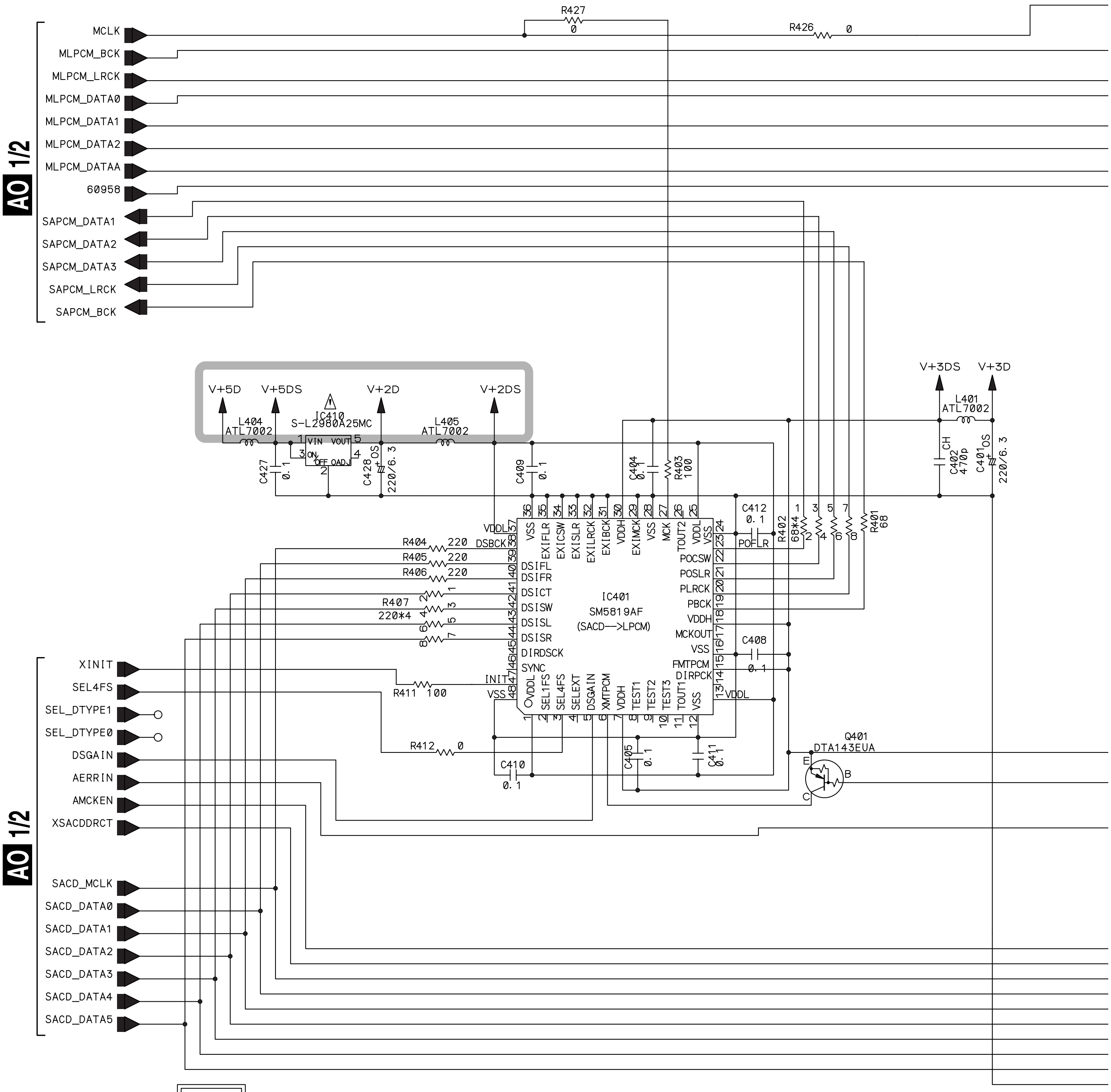

GUID LABEL:VXW1005
TP18 TP19 TP20 TP21 TP22 TP23
L204 VTH1043
L205 VTH1043
L206 VTH1043
L207 VTH1043
TPA1P TPA1N TPB1P TPB1N
TPA0P TPA0N TPB0P TPB0N
JA202 VKN1800
JA201 VKN1800
R267 56 R268 56 R269 56 R270 56
R271 56 R272 56 R273 56 R274 56
R275 5.1k R276 5.1k
C242 220P CH C243 220P CH
C244 1 C245 1
C246 0.1 C247 0.1
TP26
R283 0 R284 0
GNDA GNDD GNDS
R327 0
C309 0.1 C310 1000p
X302 ASS7054 22.5792MHz
V+3DF V+3D
L301 ATL7002
R326 100 R325 47
C315 0.1 R328 100 R329 10k C311 0.1
C305 0.1 C304 100/6.3
TP27
IC301
FLOW CONTROL IC
PD8112A
(Gate Array)
XSACDDRCT
R313 0 R311 0
TP302 R310 47 R309 47
R308 47*4
TP301 R307 47
C303 0.1 C302 0.1 TP304
R305 22 R304 47 R303 68 R302 68*4 R301 47
C301 0.1
C316 0.1 C317 0.1 C318 C319 0.1
R332 100 R333 100
R354 22K R355 22K C326 1
C320 0.1
R339 47*4 R340 47*4 R341 47*4 R342 47
R344 47*4 R345 47*4 R346 47*4 R347 47*4 R348 47 R349 47 R350 47*4
V+3D V+3DR
L302 ATL7002
C321 100/6.3 C322 0.1 C323 0.1 C324 1000P C325 0.1 C333 0.1
IC302
K4S641632F-TC75
64M SDRAM
GNDD
SACD_DATA5
SACD_DATA4
SACD_DATA3
SACD_DATA2
SACD_DATA1
SACD_DATA0
SACD_MCLK
SAPCM_DATA1
SAPCM_DATA2
SAPCM_DATA3
SAPCM_LRCK
SAPCM_BCK
RCMUTEOUT
AMCKEN
MCLK
MLPCM_BCK
MLPCM_LRCK
MLPCM_DATAA
MLPCM_DATA0
MLPCM_DATA1
MLPCM_DATA2
60958
AO 2/2
AERRIN
DSGAIN
SEL4FS
XSACDDRCT
XINIT
SEL_DTYPE1
SEL_DTYPE0
POWER
IE_CK
IE_RST
IE_DI
IE_DO
IE_INT

AO 1/2

3.33 1394 MODULE(2/2) ASSY

AO 2/2

1394 MODULE (AXQ7251)


AO 1/2
MCLK
MLPCM_BCK
MLPCM_LRCK
MLPCM_DATA0
MLPCM_DATA1
MLPCM_DATA2
MLPCM_DATAA
60958
SAPCM_DATA1
SAPCM_DATA2
SAPCM_DATA3
SAPCM_LRCK
SAPCM_BCK
R427 0
R426 0
V+5D
V+5DS
V+2D
V+2DS
IC410 S-L2980A25MC
VIN VOUT
ON OFF OADJ
L404 ATL7002
L405 ATL7002
C427 0.1
C428 OS 220/6.3
C409 0.1
C404 0.1
R403 100
V+3DS
V+3D
L401 ATL7002
C402 CH 470p
C401 OS 220/6.3
C412 0.1
R402 68*4
R401 68
R404 220
R405 220
R406 220
R407 220*4
R411 100
R412 0
C410 0.1
C405 0.1
C411 0.1
C408 0.1
IC401 SM5819AF (SACD-->LPCM)
VDDL DSBCK DSIFL DSIFR DSICT DSISW DSISL DSISR DIRDSCK SYNC INIT VSS
VSS EXIFLR EXICSW EXISLR EXILRCK EXIBCK VDDH EXIMCK VSS MCK TOUT2 VDDL
VSS POCSW POSLR PLRCK PBCK VDDH MCKOUT VSS FMTPCM DIRPCK VDDL
VDDL SEL1FS SEL4FS SELEXT DSGAIN XMTPCM VDDH TEST1 TEST2 TEST3 TOUT1 VSS
POFLR
Q401 DTA143EUA
E B C
AO 1/2
XINIT
SEL4FS
SEL_DTYPE1
SEL_DTYPE0
DSGAIN
AERRIN
AMCKEN
XSACDDRCT
SACD_MCLK
SACD_DATA0
SACD_DATA1
SACD_DATA2
SACD_DATA3
SACD_DATA4
SACD_DATA5

NOTES

⚠ IMPORTANT PARTS FOR SAFETY
Indicated in "STBY" parts are STANDBY.

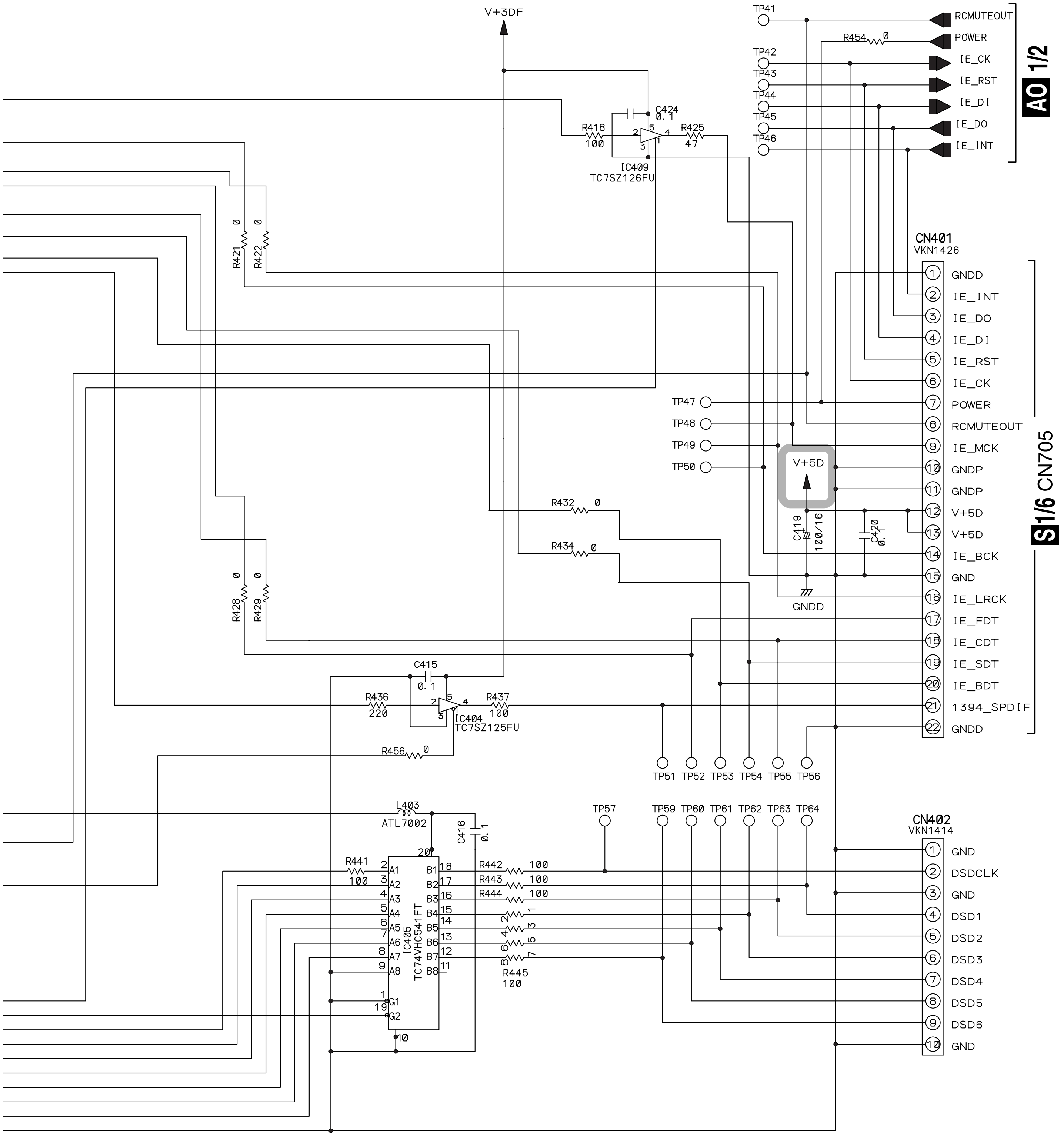
CAPACITORS
Unit : p-pF or µF unless otherwise noted.
Ratings : Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage : 50V except for electrolytic capacitors.

100/16:CEVW101M16 100/6.3:CEVL101M6R3
220/6.3:ACH7195

⊣⊢ :CKSRYB unless otherwise noted

RESISTORS
Unit : k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power : 1/16W unless otherwise noted.
Tolerance : (J)±5% unless otherwise noted.

AO 2/2

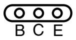
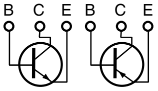
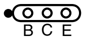
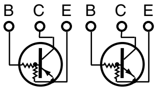
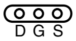
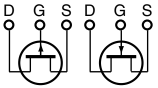
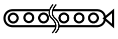
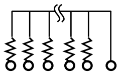
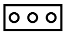
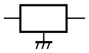

V+3DF
TP41
TP42
TP43
TP44
TP45
TP46
RCMUTEOUT
POWER
IE_CK
IE_RST
IE_DI
IE_DO
IE_INT
R454 0
AO 1/2
C424 0.1
R418 100
R425 47
IC409 TC7SZ126FU
R421 0
R422 0
CN401 VKN1426
1 GNDD
2 IE_INT
3 IE_DO
4 IE_DI
5 IE_RST
6 IE_CK
7 POWER
8 RCMUTEOUT
9 IE_MCK
10 GNDP
11 GNDP
12 V+5D
13 V+5D
14 IE_BCK
15 GND
16 IE_LRCK
17 IE_FDT
18 IE_CDT
19 IE_SDT
20 IE_BDT
21 1394_SPDIF
22 GNDD
S1/6 CN705
TP47
TP48
TP49
TP50
V+5D
C419 100/16
C420 0.1
GNDD
R432 0
R434 0
R428 0
R429 0
C415 0.1
R436 220
R437 100
IC404 TC7SZ125FU
R456 0
TP51 TP52 TP53 TP54 TP55 TP56
L403 ATL7002
C416 0.1
TP57 TP59 TP60 TP61 TP62 TP63 TP64
IC405 TC74VHC541FT
R441 100
R442 100
R443 100
R444 100
R445 100
A1 A2 A3 A4 A5 A6 A7 A8
B1 B2 B3 B4 B5 B6 B7 B8
G1 G2
CN402 VKN1414
1 GND
2 DSDCLK
3 GND
4 DSD1
5 DSD2
6 DSD3
7 DSD4
8 DSD5
9 DSD6
10 GND

AO 2/2

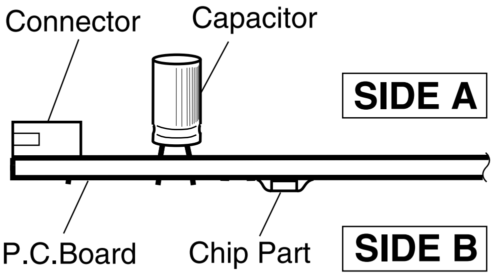
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

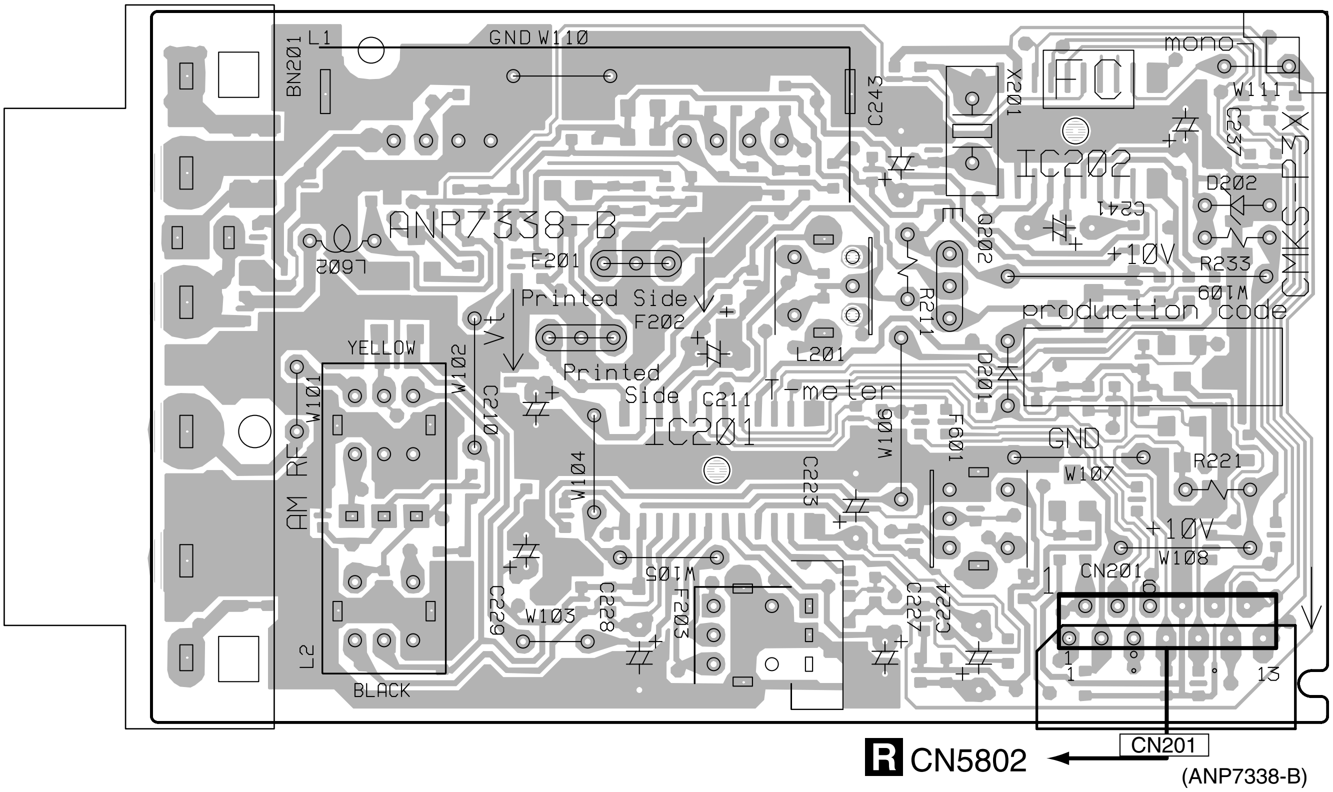

Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

4.1 FM/AM TUNER MODULE

SIDE A **SIDE B**

A FM/AM TUNER MODULE

SIDE A

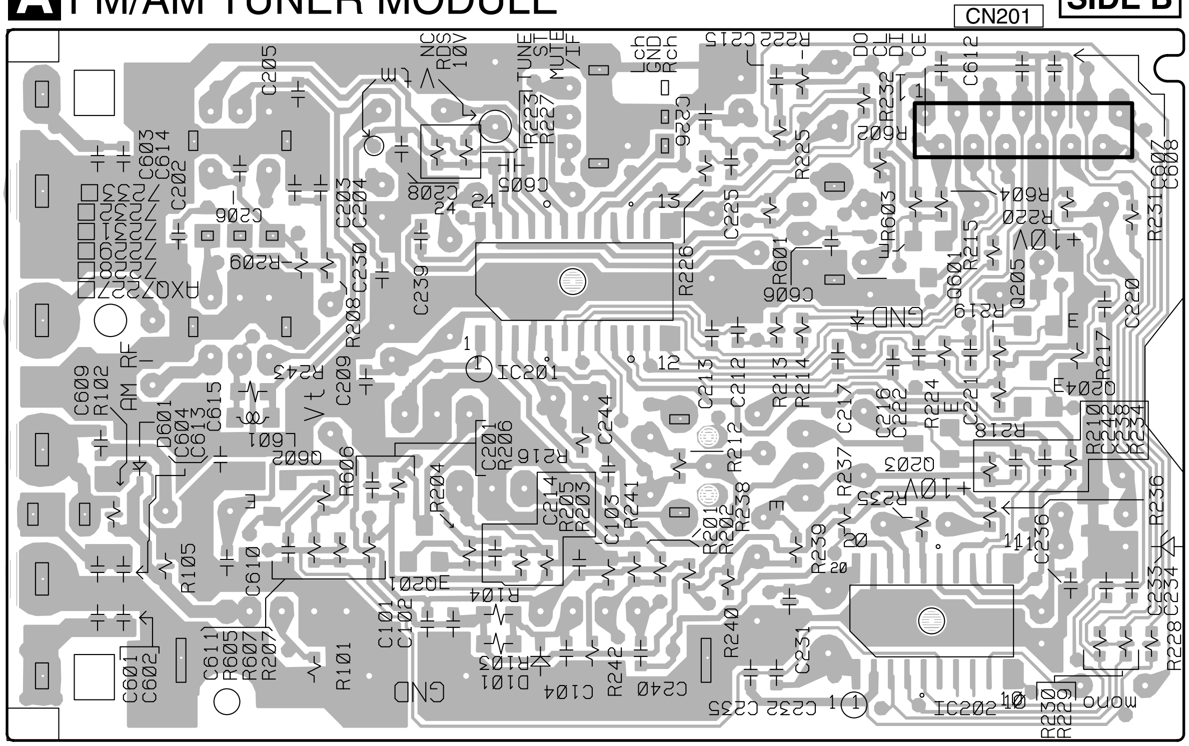

BN201
L1
GND W110
C243
X201
IC202
mono
W111
C237
D202
C241
+10V
R233
Q201
CMKS-P3X
ANP7338-B
L602
F201
Printed Side
F202
Vt
Q202
R211
production code
D201
YELLOW
W102
W101
Printed Side
C210
C211
T-meter
IC201
L201
F601
W106
GND
W107
R221
AM RF
W104
C223
+10V
W108
1
CN201
C229
W103
C228
W105
F203
C227
C224
L2
BLACK
1
13
CN201
R CN5802

(ANP7338-B)

Q202

A FM/AM TUNER MODULE

SIDE B


CN201
C205
NC
RDS
10V
TUNE
ST
MUTE
IF
Lch
GND
Rch
C215
R222
DO
CL
DI
CE
C612
R223
R227
C226
R232
R602
C603
C614
C202
C203
C204
C605
R225
C607
C608
C206
R209
C230
C239
C225
WR603
R604
R220
R231
AX0727
R208
R226
R601
C606
R215
+10V
Q601
Q205
R219
C220
AM RF
Vt
C209
R243
IC201
1
12
13
24
GND
E
R217
C609
R102
D601
C604
C613
C615
L601
Q602
R606
C201
R206
R216
C244
C213
C212
R213
R214
C217
C216
C222
R224
C221
Q204
R210
C242
C238
R234
R218
R204
C214
R205
R203
C103
R241
R212
R238
R237
Q203
R235
+10V
R236
R105
C610
Q101
R104
R201
R202
R239
20
C236
11
C233
C234
C611
R605
R607
R207
R101
C101
C102
R103
D101
C104
R242
R240
C231
C240
C232
C235
IC202
10
R230
R229
mono
R228
C601
C602
GND

(ANP7338-B)

Q201 IC201 Q203 IC202 Q205 Q204

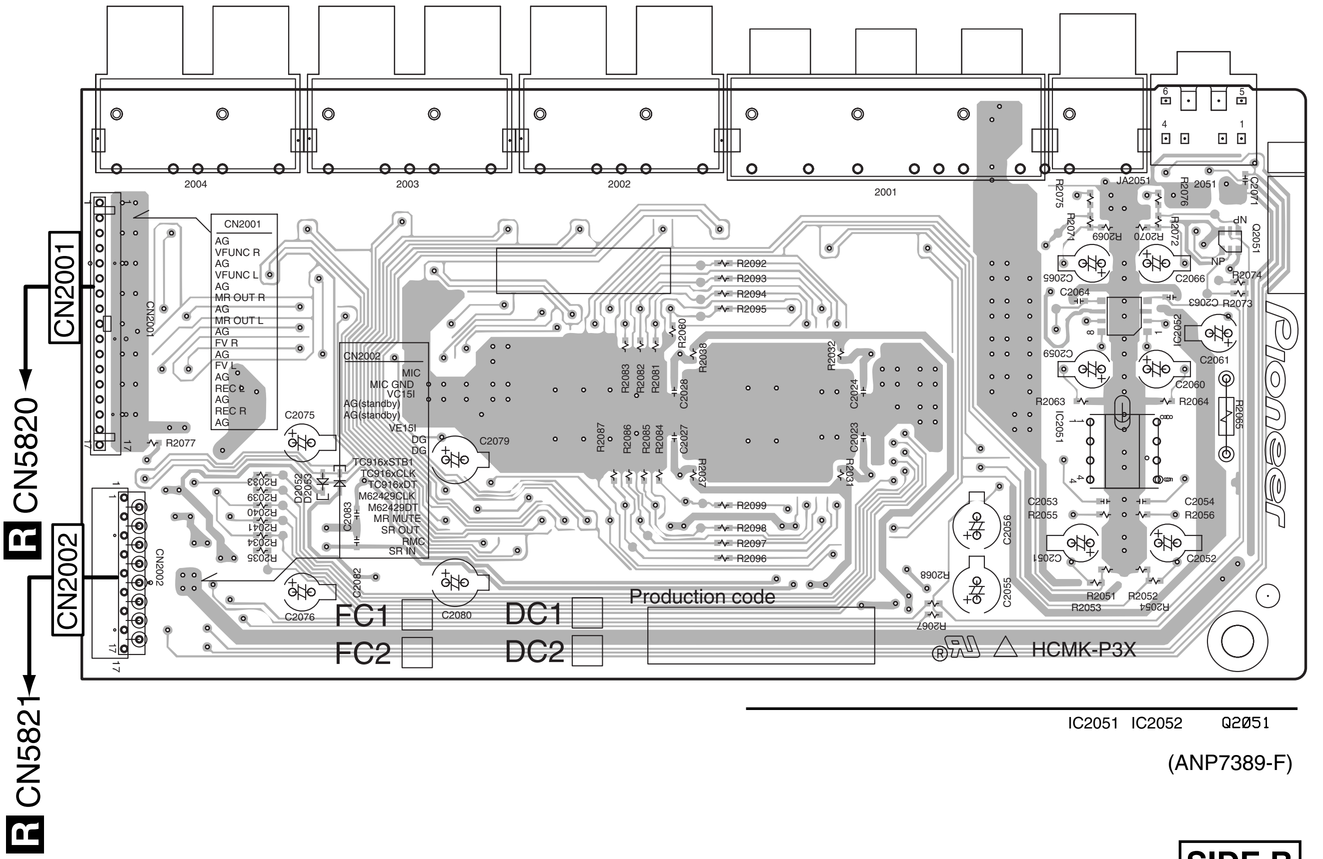
A **A**

4.2 A/V I/O ASSY

SIDE A **SIDE B**

B A/V IN/OUT ASSY

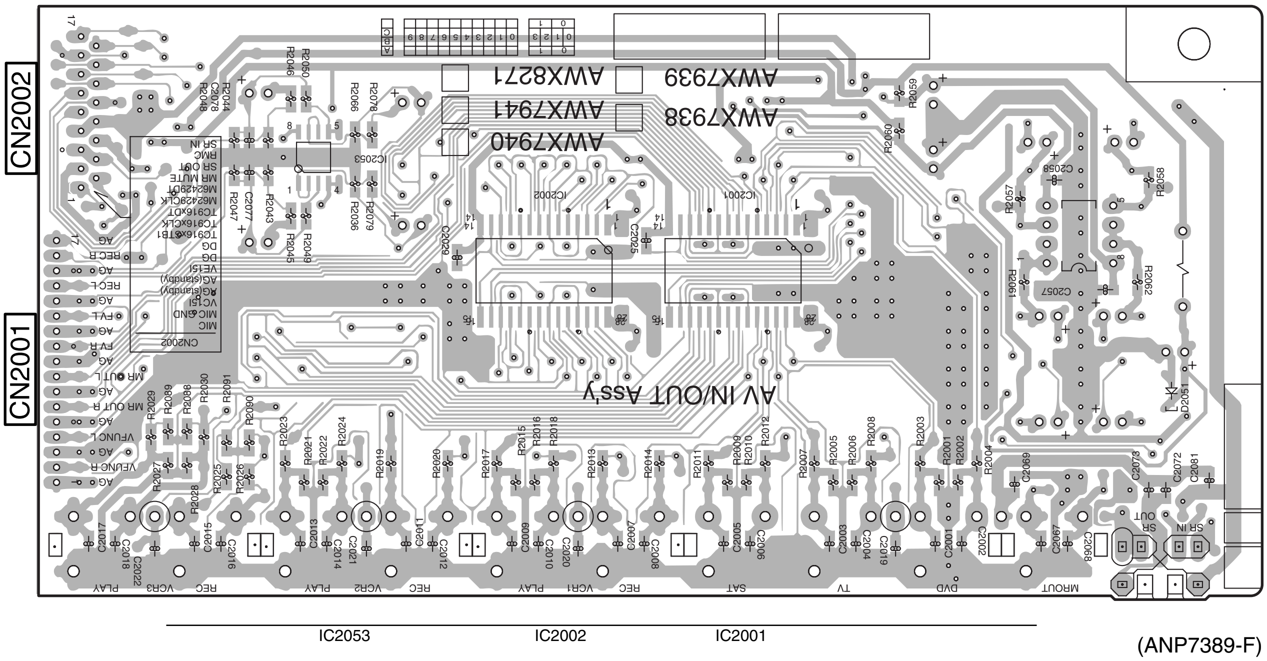
SIDE A



2004
2003
2002
2001
JA2051
CN2001
AG
VFUNC R
AG
VFUNC L
AG
MR OUT R
AG
MR OUT L
AG
FV R
AG
FV L
AG
REC L
AG
REC R
AG
CN2002
MIC
MIC GND
VC15I
AG(standby)
AG(standby)
VE15I
DG
DG
TC916xSTB1
TC916xCLK
TC916xDT
M62429CLK
M62429DT
MR MUTE
SR OUT
RMC
SR IN
R2092
R2093
R2094
R2095
R2099
R2098
R2097
R2096
C2075
C2076
C2079
C2080
C2082
C2083
IC2051
IC2052
Q2051
C2056
C2055
C2051
C2052
C2053
C2054
Production code
FC1
FC2
DC1
DC2
HCMK-P3X
Pioneer
CN2001
CN5820
R
CN2002
CN5821
R
IC2051 IC2052 Q2051

(ANP7389-F)

SIDE B



AWX8271
AWX7939
AWX7941
AWX7938
AWX7940
AV IN/OUT Ass'y
IC2053
IC2002
IC2001
CN2002
CN2001
PLAY
VCR3
REC
PLAY
VCR2
REC
PLAY
VCR1
REC
SAT
TV
DVD
MROUT
SR IN
SR OUT
IC2053 IC2002 IC2001

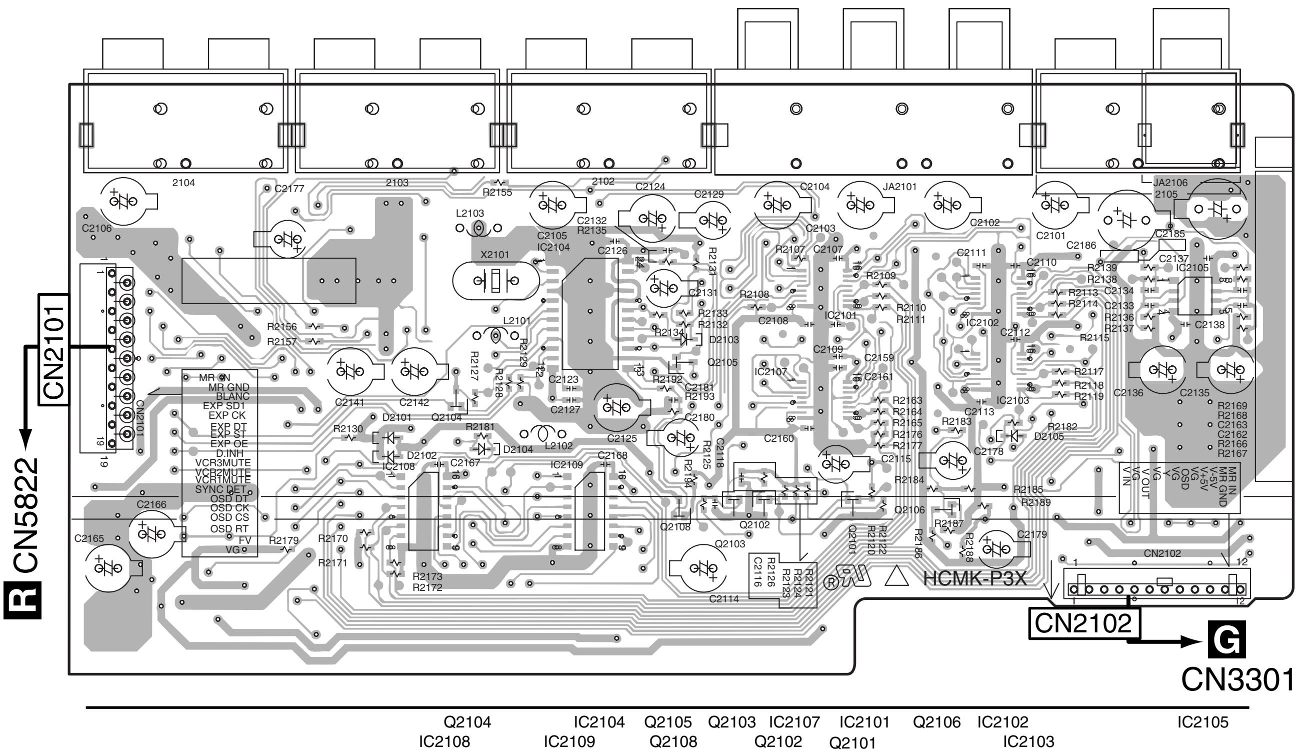
(ANP7389-F)

4.3 COMPOSITE ASSY

SIDE A **SIDE B**

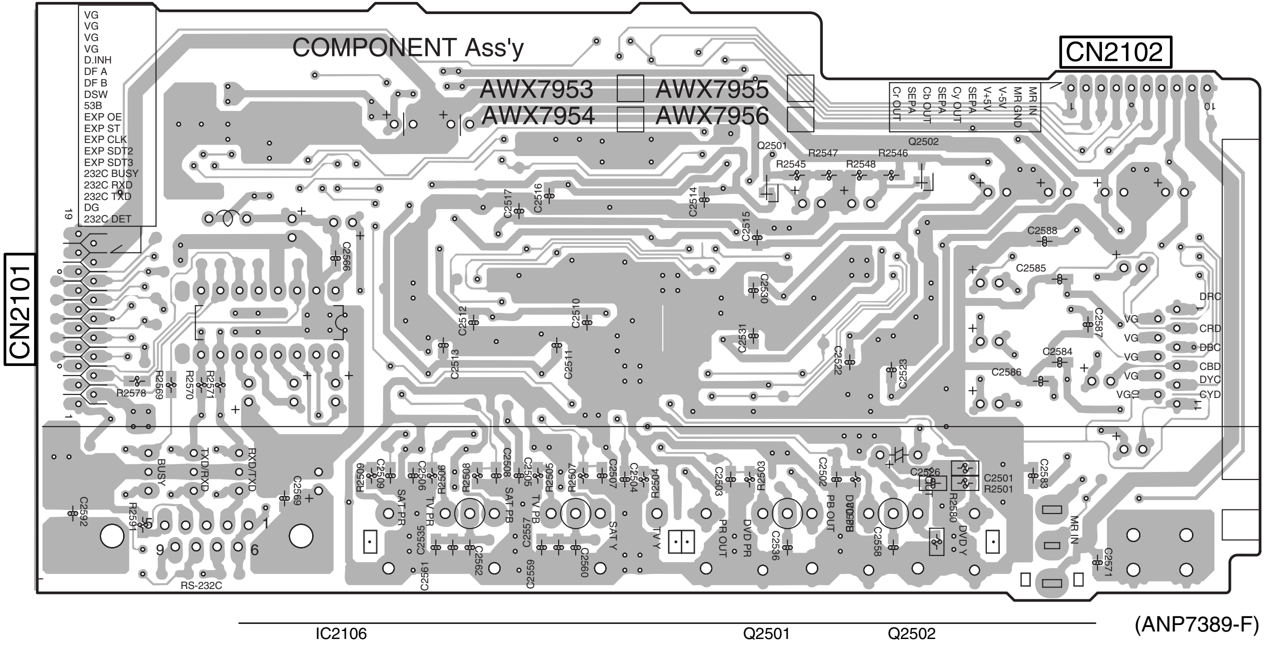
C COMPOSITE ASSY

SIDE A


CN2101
CN5822
R
CN2102
G
CN3301
HCMK-P3X
JA2101
JA2106
X2101
MR ON
MR GND
BLANC
EXP SD1
EXP CK
EXP DT
EXP ST
EXP OE
D.INH
VCR3MUTE
VCR2MUTE
VCR1MUTE
SYNC DET
OSD DT
OSD CK
OSD CS
OSD RT
FV
VG
Q2104 IC2104 Q2105 Q2103 IC2107 IC2101 Q2106 IC2102 IC2105
IC2108 IC2109 Q2108 Q2102 Q2101 IC2103

(ANP7389-F)

SIDE B


COMPONENT Ass'y
AWX7953
AWX7954
AWX7955
AWX7956
CN2102
CN2101
VG
VG
VG
VG
D.INH
DF A
DF B
DSW
53B
EXP OE
EXP ST
EXP CLK
EXP SDT2
EXP SDT3
232C BUSY
232C RXD
232C TXD
DG
232C DET
MR IN
MR GND
V-5V
V+5V
SEPA
Cy OUT
Cb OUT
SEPA
Cr OUT
Q2501
Q2502
DRC
CRD
DBC
CBD
DYC
CYD
RS-232C
BUSY
TXD/RXD
RXD/TXD
SAT PR
TV PR
SAT PB
TV PB
SAT Y
TV Y
PR OUT
DVD PR
PB OUT
DVD PB
DVD Y
MR IN
IC2106 Q2501 Q2502

(ANP7389-F)

C **C**

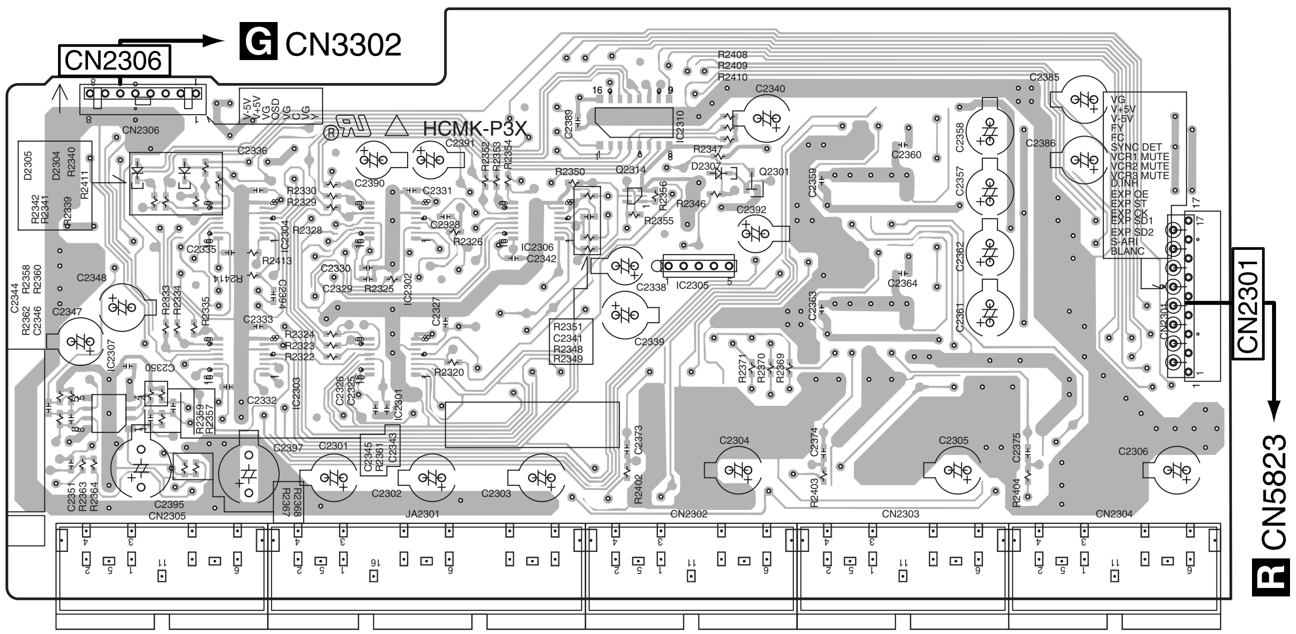
4.4 S-VIDEO ASSY

SIDE A

SIDE B

D S-VIDEO ASSY

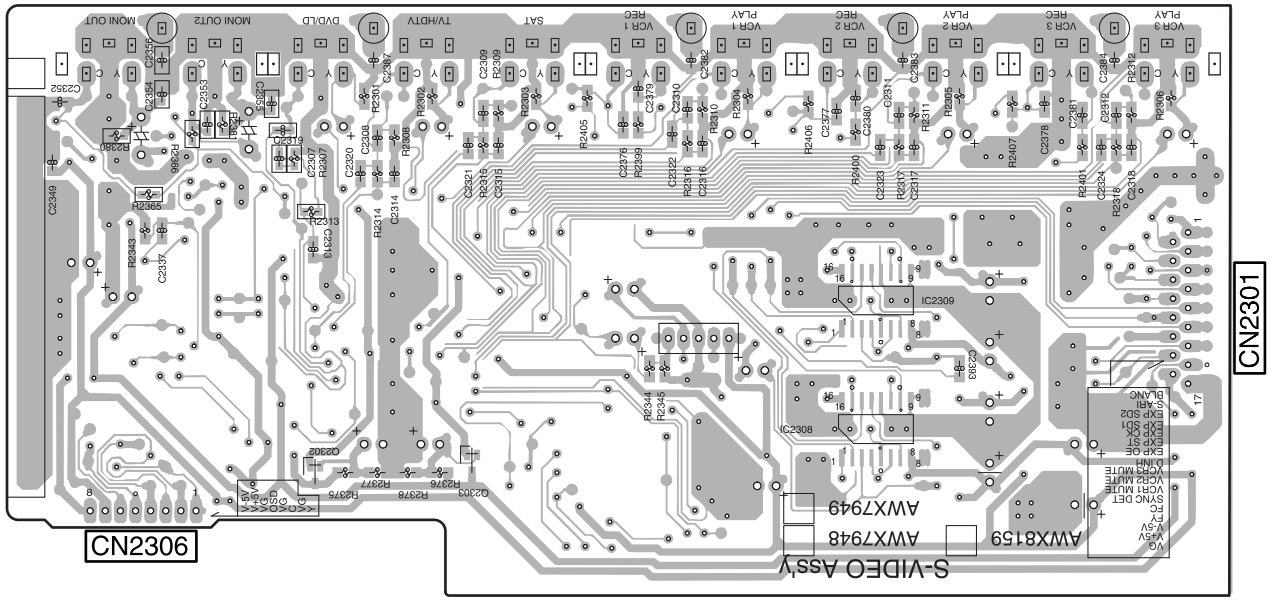
SIDE A


CN2306
G CN3302
HCMK-P3X
CN2305
JA2301
CN2302
CN2303
CN2304
CN2301
CN5823
R
VG
V+5V
V-5V
FY
FC
SYNC DET
VCR1 MUTE
VCR2 MUTE
VCR3 MUTE
D.INH
EXP OE
EXP ST
EXP CK
EXP SD1
EXP SD2
S-ARI
BLANC

IC2307
IC2304
IC2303
IC2302
IC2301
IC2306
IC2310
Q2314
IC2305
Q2301

(ANP7389-F)

SIDE B


MONI OUT
MONI OUT2
DVD/LD
TV/HDTV
SAT
VCR 1 REC
VCR 1 PLAY
VCR 2 REC
VCR 2 PLAY
VCR 3 REC
VCR 3 PLAY
IC2309
IC2308
CN2301
CN2306
AWX7949
AWX7948
AWX8159
S-VIDEO Ass'y

Q2302
Q2303
IC2309
IC2308

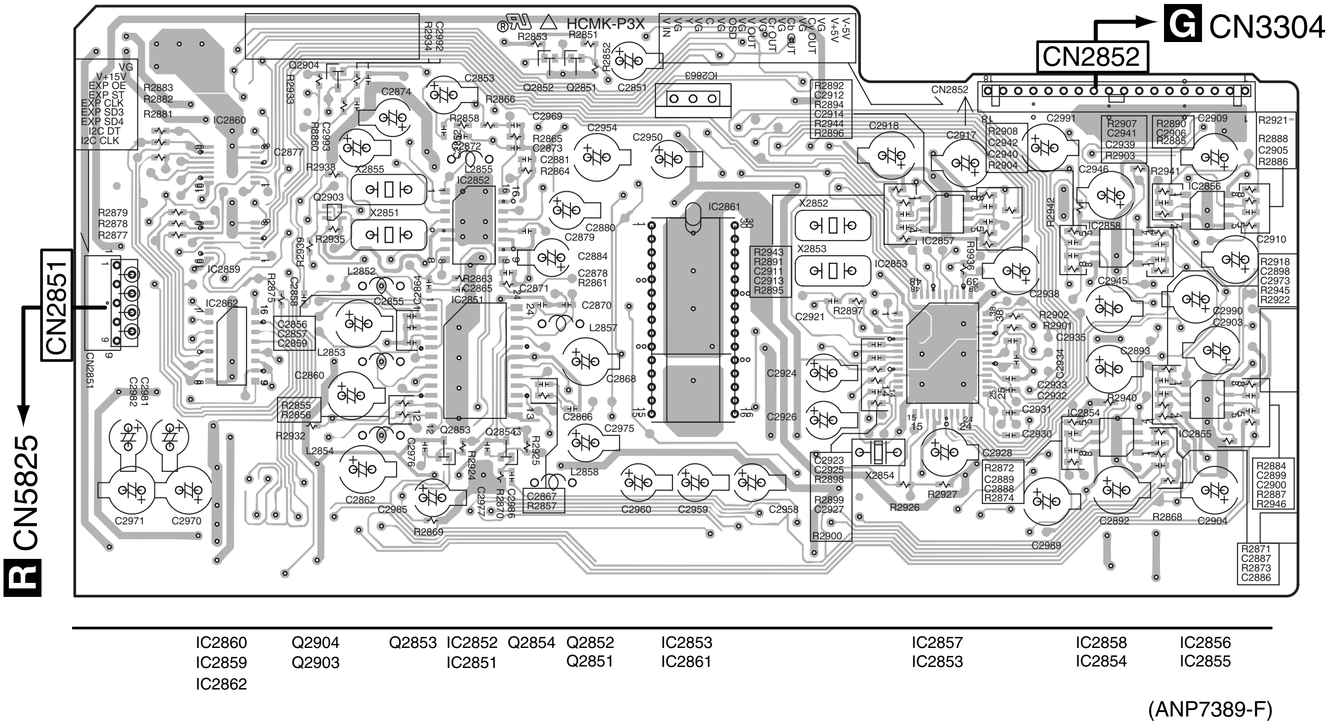
(ANP7389-F)

4.5 V-CONVERT ASSY

SIDE A **SIDE B**

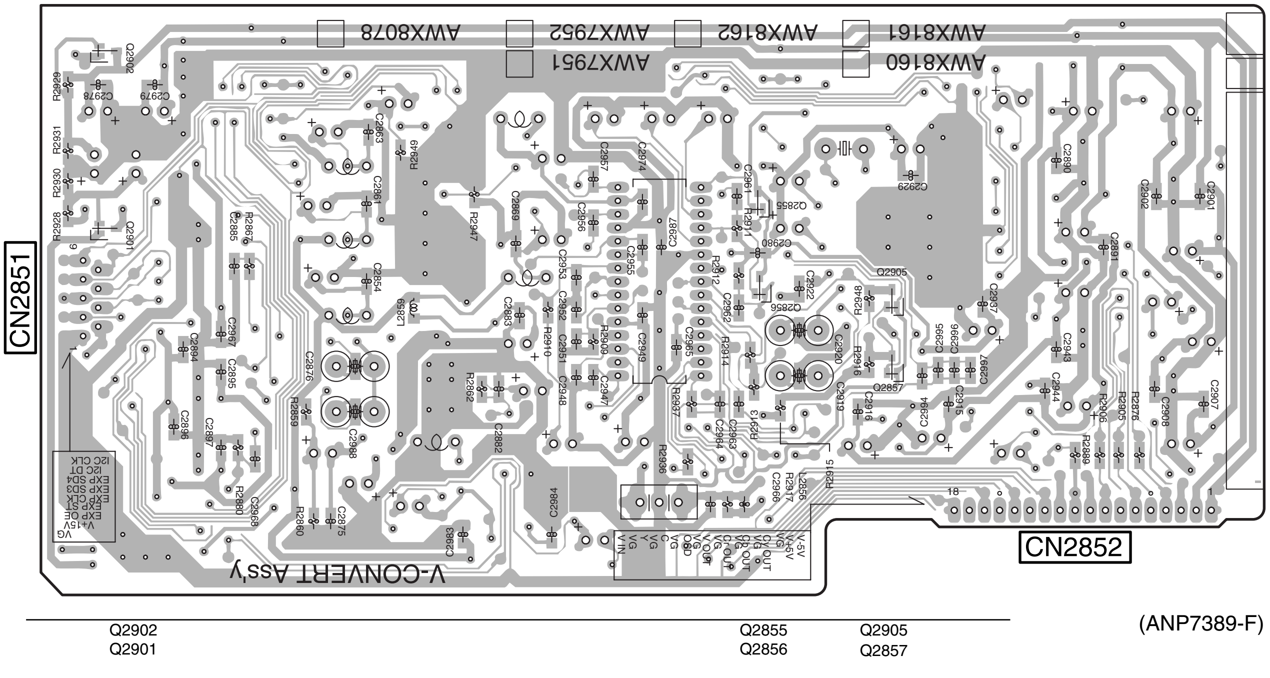
E V-CONVERT ASSY

SIDE A



G CN3304
CN2852
CN2851
CN5825
R
HCMK-P3X
IC2860 IC2859 IC2862
Q2904 Q2903
Q2853
IC2852 IC2851
Q2854
Q2852 Q2851
IC2853 IC2861
IC2857 IC2853
IC2858 IC2854
IC2856 IC2855
(ANP7389-F)

SIDE B



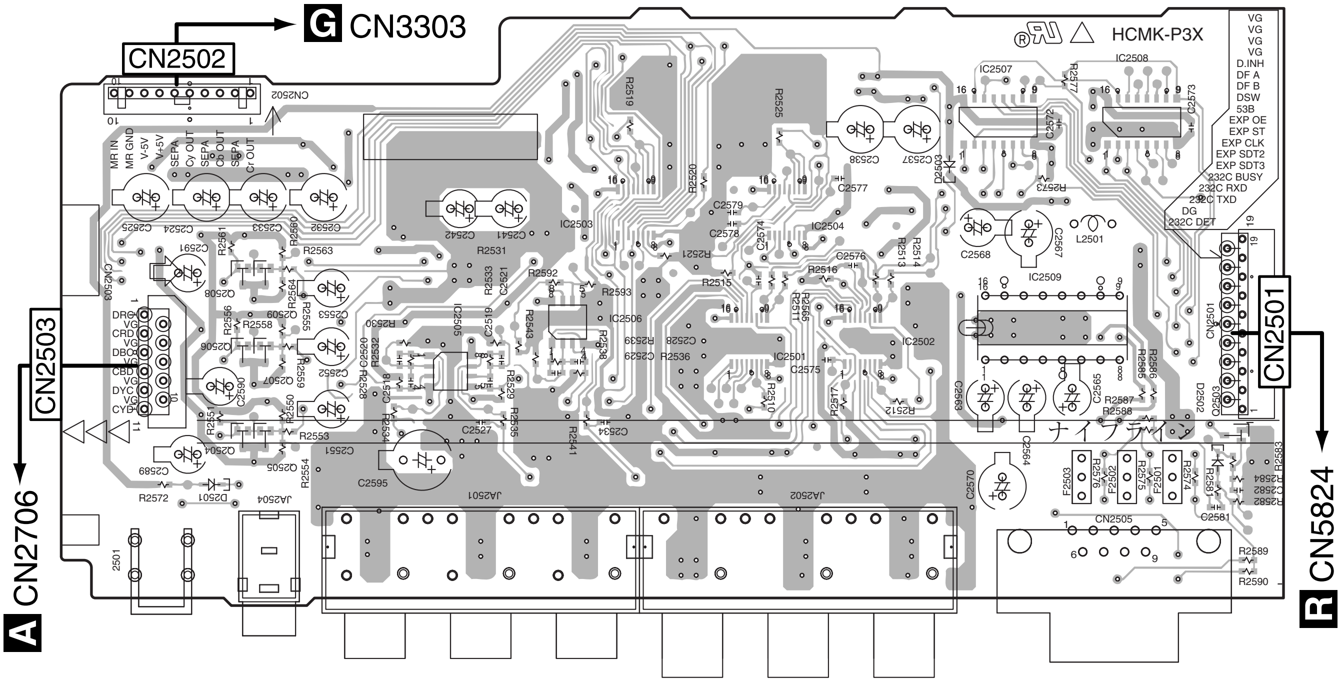
CN2851
CN2852
V-CONVERT Ass'y
AWX8078
AWX7952
AWX7951
AWX8162
AWX8161
AWX8160
Q2902 Q2901
Q2855 Q2856
Q2905 Q2857
(ANP7389-F)

4.6 COMPONENT ASSY

SIDE A **SIDE B**

F COMPONENT ASSY

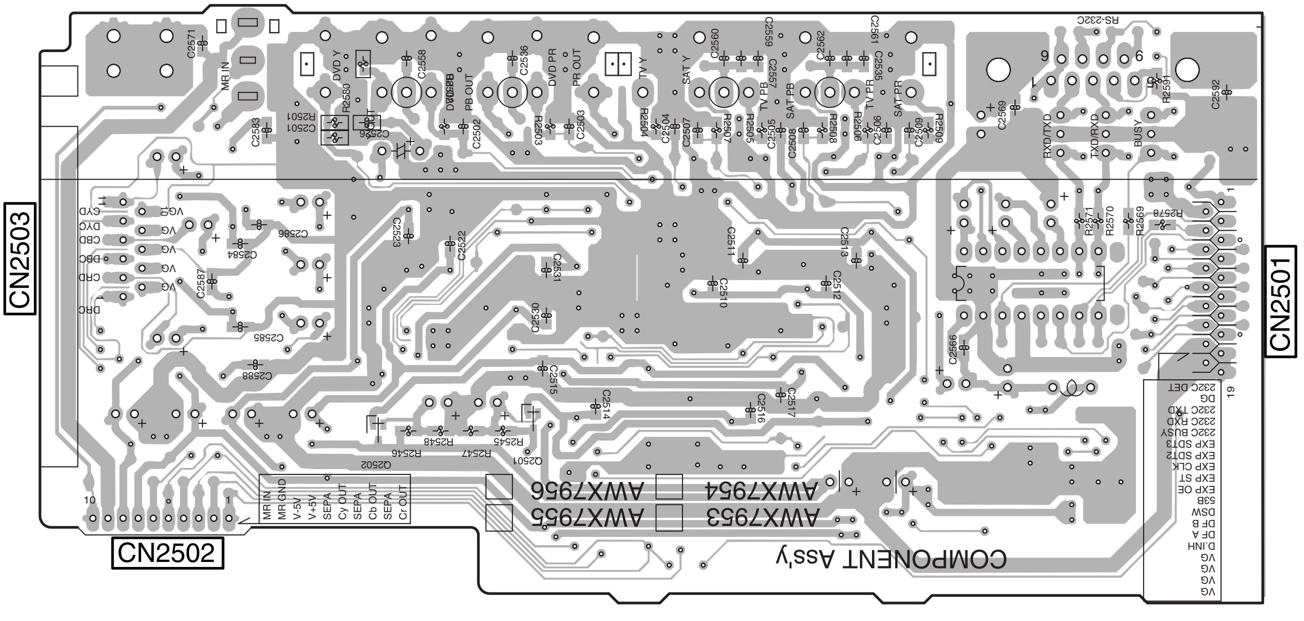
SIDE A


CN2502
G CN3303
HCMK-P3X
CN2503
CN2706
A
CN2501
CN5824
R
IC2507
IC2508
IC2509
IC2501
IC2502
IC2503
IC2504
IC2505
IC2506
JA2501
JA2502
CN2505
MR IN
MR GND
V-5V
V+5V
SEPA
Cy OUT
Cb OUT
Cr OUT
DRC
CRD
DBC
CBD
DYC
CYD
VG
D.INH
DF A
DF B
DSW
53B
EXP OE
EXP ST
EXP CLK
EXP SDT2
EXP SDT3
232C BUSY
232C RXD
232C TXD
DG
232C DET

Q2508 Q2509 IC2505 IC2506 IC2503 IC2501 IC2504 IC2502 IC2507 IC2508
Q2506 Q2507 IC2509
Q2504 Q2505

(ANP7389-F)

SIDE B


CN2503
CN2501
CN2502
RS-232C
MR IN
DVD Y
DVD PB
DVD PR
PB OUT
PR OUT
TV Y
SAT Y
TV PB
SAT PB
TV PR
SAT PR
RXD/TXD
TXD/RXD
BUSY
AWX7956
AWX7954
AWX7955
AWX7953
COMPONENT Ass'y

Q2502 Q2501

(ANP7389-F)

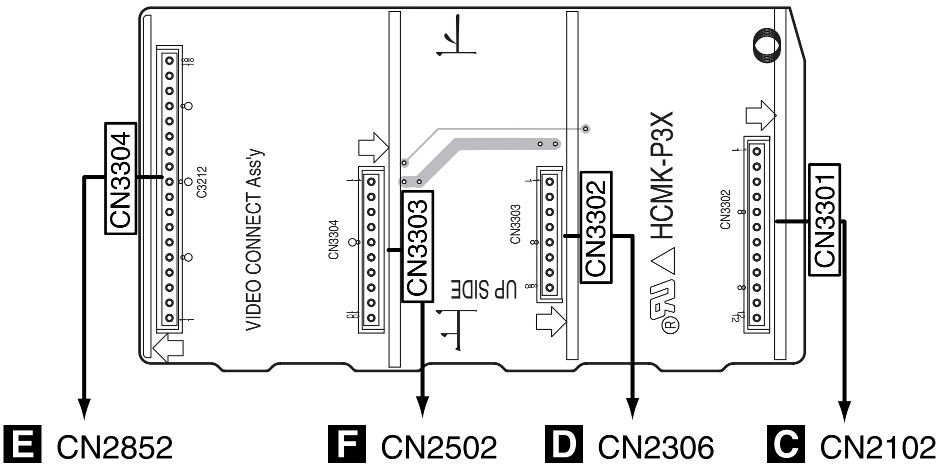
4.7 VIDEO CONNECT ASSY

SIDE A

SIDE B

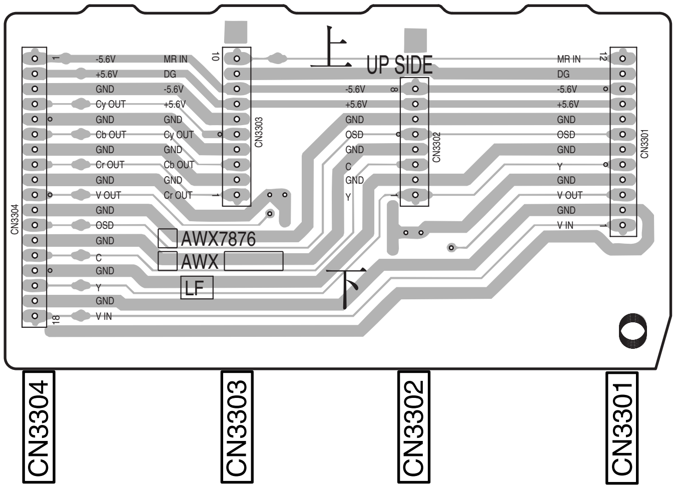
G VIDEO CONNECT ASSY

SIDE A


CN3304
VIDEO CONNECT Ass'y
C3212
CN3303
UP SIDE
CN3302
HCMK-P3X
CN3301
E CN2852
F CN2502
D CN2306
C CN2102

(ANP7474-A)

SIDE B

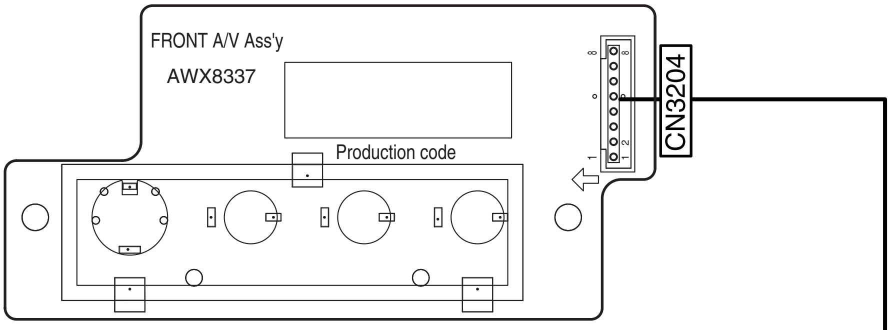

-5.6V
+5.6V
GND
Cy OUT
GND
Cb OUT
GND
Cr OUT
GND
V OUT
GND
OSD
GND
C
GND
Y
GND
V IN
MR IN
DG
-5.6V
+5.6V
GND
Cy OUT
GND
Cb OUT
GND
Cr OUT
UP SIDE
-5.6V
+5.6V
GND
OSD
GND
C
GND
Y
MR IN
DG
-5.6V
+5.6V
GND
OSD
GND
Y
GND
V OUT
GND
V IN
AWX7876
AWX
LF
CN3304
CN3303
CN3302
CN3301

(ANP7474-A)

4.8 MIC AMP, MIC, FRONT A/V and HEADPHONE ASSYS

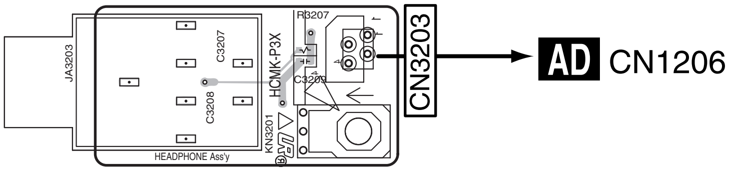
SIDE A

J FRONT A/V ASSY


FRONT A/V Ass'y
AWX8337
Production code
CN3204

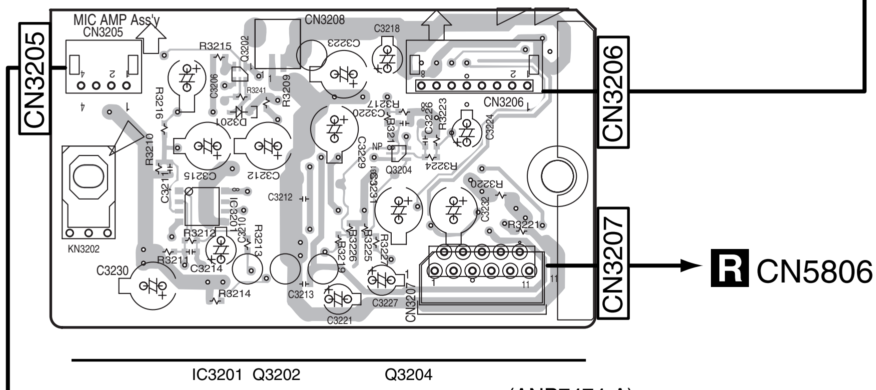
(ANP7474-A)

K HEADPHONE ASSY


JA3203
C3207
C3208
HCMK-P3X
R3207
C3209
KN3201
HEADPHONE Ass'y
CN3203
AD CN1206

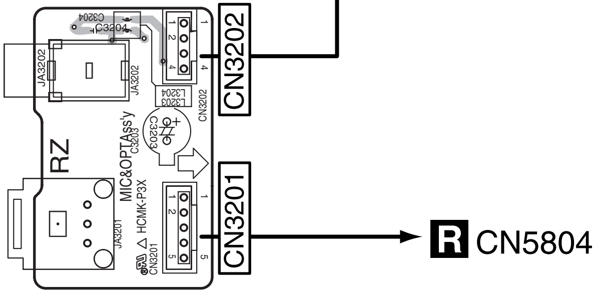
(ANP7474-A)

H MIC AMP ASSY


MIC AMP Ass'y
CN3205
CN3208
C3218
C3223
R3215
Q3202
R3216
R3209
D3201
C3206
R3241
R3217
C3220
CN3206
C3228
R3223
C3224
R3218
C3229
Q3204
R3224
R3210
C3215
C3212
C3211
IC3201
R3220
C3231
C3222
R3212
R3213
R3221
R3226
R3219
R3225
R3227
C3230
KN3202
R3211
C3214
R3214
C3213
C3221
C3227
CN3207
CN3205
CN3206
CN3207
R CN5806
IC3201 Q3202 Q3204

(ANP7474-A)

I MIC & OPT ASSY

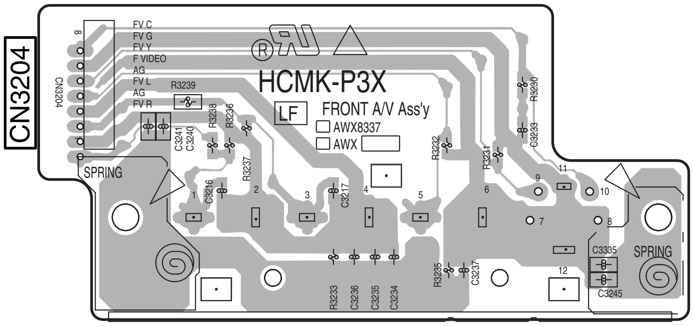

C3204
JA3202
L3204
L3203
CN3202
C3203
MIC&OPTAss'y
RZ
HCMK-P3X
JA3201
CN3201
CN3202
CN3201
R CN5804

(ANP7474-A)

H I J K

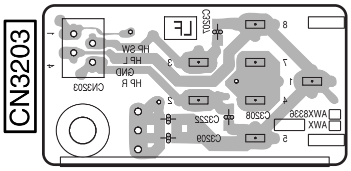
SIDE B

J FRONT A/V ASSY


CN3204
FV C
FV G
FV Y
F VIDEO
AG
FV L
AG
FV R
HCMK-P3X
LF
FRONT A/V Ass'y
AWX8337
AWX
SPRING
R3239
C3241
C3240
R3238
R3236
R3237
C3216
C3217
R3232
R3231
R3230
C3233
C3335
C3245
R3233
C3236
C3235
C3234
R3235
C3237
SPRING

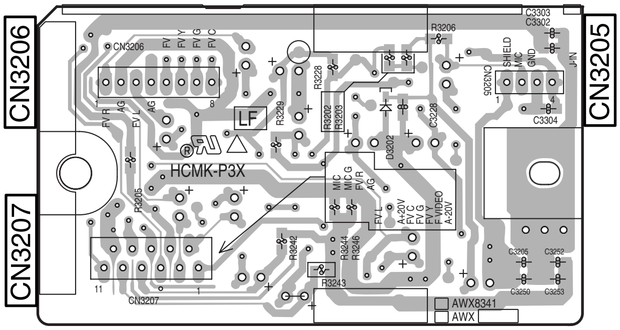
(ANP7474-A)

K HEADPHONE ASSY


CN3203
HP SW
HP L
GND
HP R
LF
C3207
C3208
C3222
C3209
AWX8336
AWX

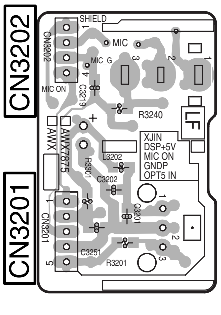
(ANP7474-A)

H MIC AMP ASSY


CN3206
CN3207
CN3205
FV
FV Y
FV G
FV C
FV R
AG
FV L
AG
LF
HCMK-P3X
R3206
C3303
C3302
SHIELD
MIC
GND
J-IN
C3304
R3228
R3229
R3202
R3203
D3202
C3228
R3205
MIC
MIC G
FV R
AG
FV L
A+20V
FV C
FV G
F VIDEO
A-20V
R3242
R3244
R3246
R3243
C3205
C3252
C3250
C3253
AWX8341
AWX

(ANP7474-A)

I MIC & OPT ASSY


CN3202
SHIELD
MIC
MIC_G
MIC ON
C3219
R3240
LF
AWX7875
AWX
XJIN
DSP+5V
MIC ON
GNDP
OPT5 IN
L3202
R3001
C3202
C3201
CN3201
C3251
R3201

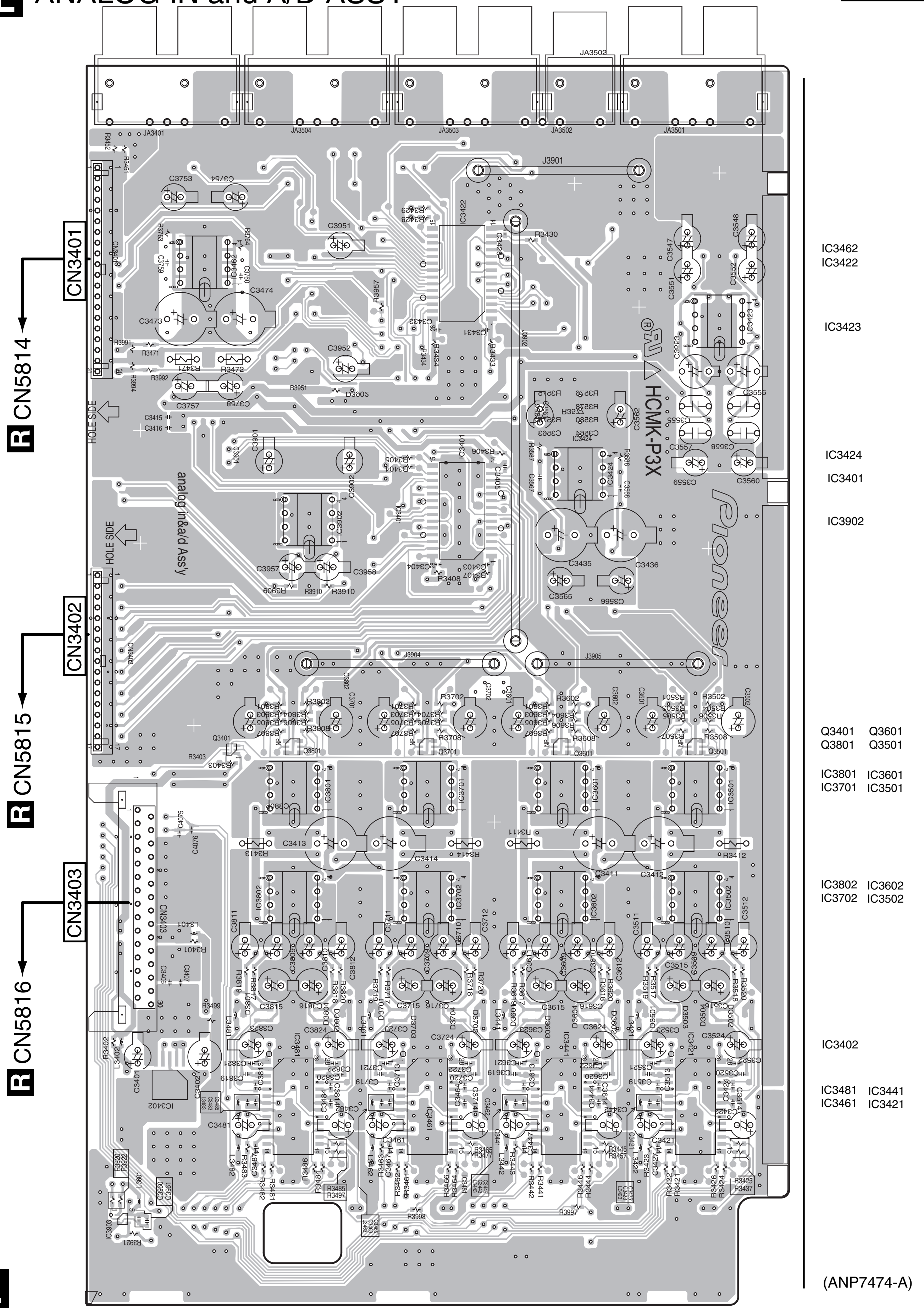
(ANP7474-A)

4.9 ANALOG IN & A/D ASSY

L ANALOG IN and A/D ASSY

SIDE A

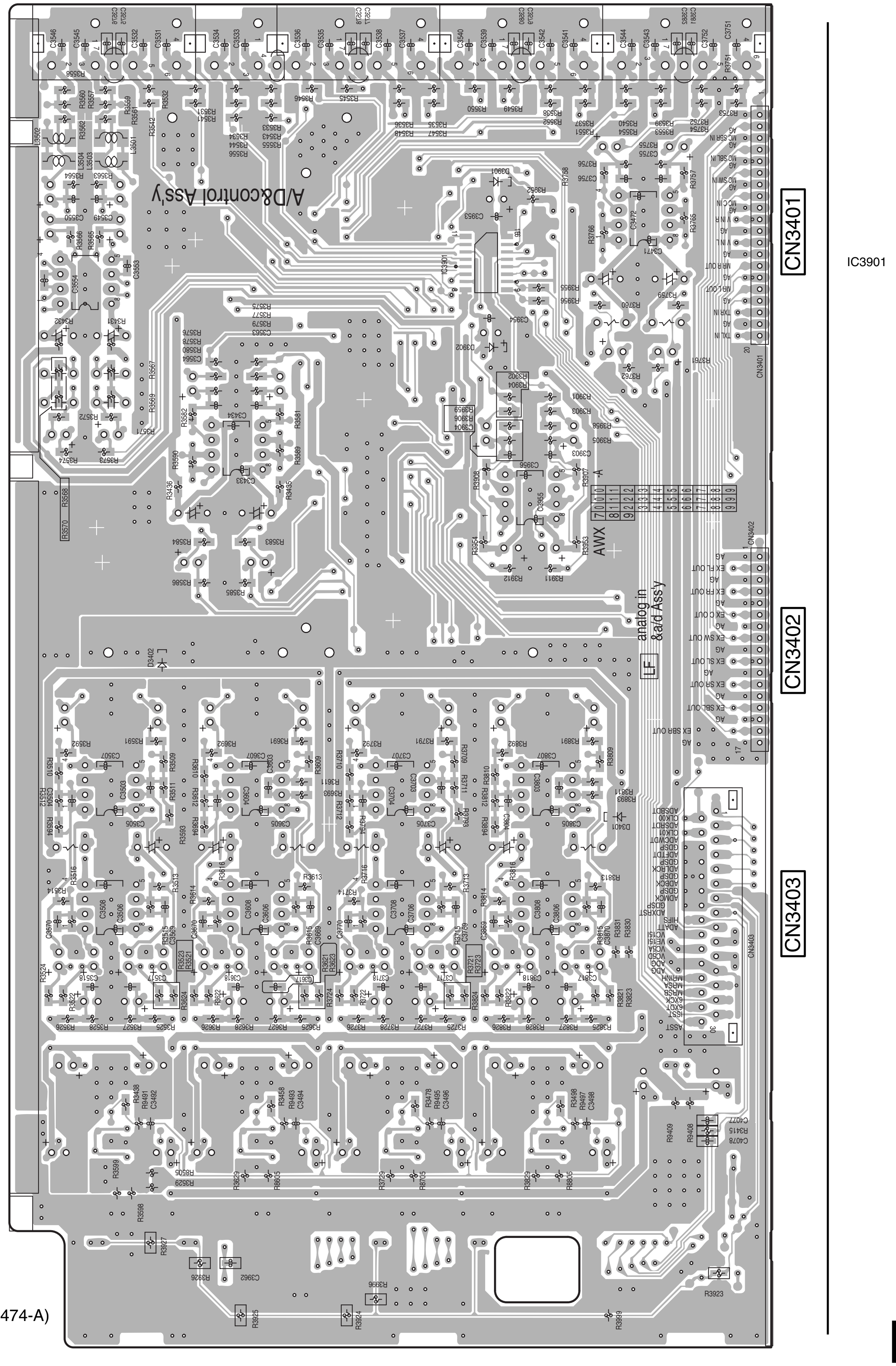
A B C D E F



CN3401
R CN5814
CN3402
R CN5815
CN3403
R CN5816
JA3401
JA3504
JA3503
JA3502
JA3501
J3901
J3904
J3905
HOLE SIDE
analog in&a/d Ass'y
HCMK-P3X
Pioneer
IC3462
IC3422
IC3423
IC3424
IC3401
IC3902
Q3401 Q3601
Q3801 Q3501
IC3801 IC3601
IC3701 IC3501
IC3802 IC3602
IC3702 IC3502
IC3402
IC3481 IC3441
IC3461 IC3421
L
(ANP7474-A)

SIDE B

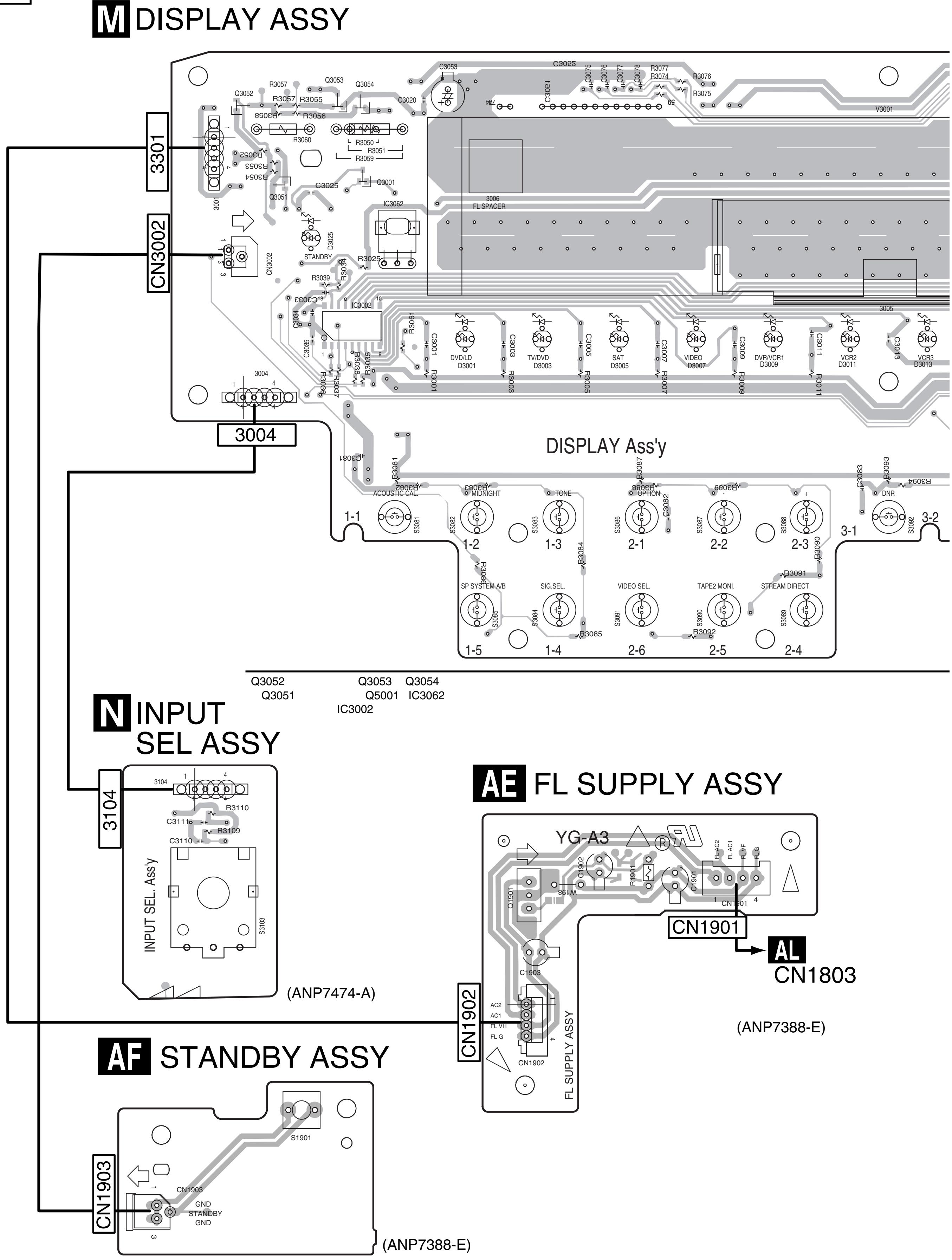
L ANALOG IN and A/D ASSY


A/D&control Ass'y
IC3901
CN3401
CN3402
CN3403
AWX
LF
analog in
&a/d Assy
AG
MC SBR IN
MC SBL IN
MC SW IN
MC C IN
V IN R
V IN L
MR R OUT
MR L OUT
TXR IN
TXL IN
EX FL OUT
EX FR OUT
EX C OUT
EX SW OUT
EX SL OUT
EX SR OUT
EX SBL OUT
EX SBR OUT
D3901
D3902
D3401
D3402
R3923
R3924
R3925
R3926
R3927
R3939
C3962
R3966

(ANP7474-A)

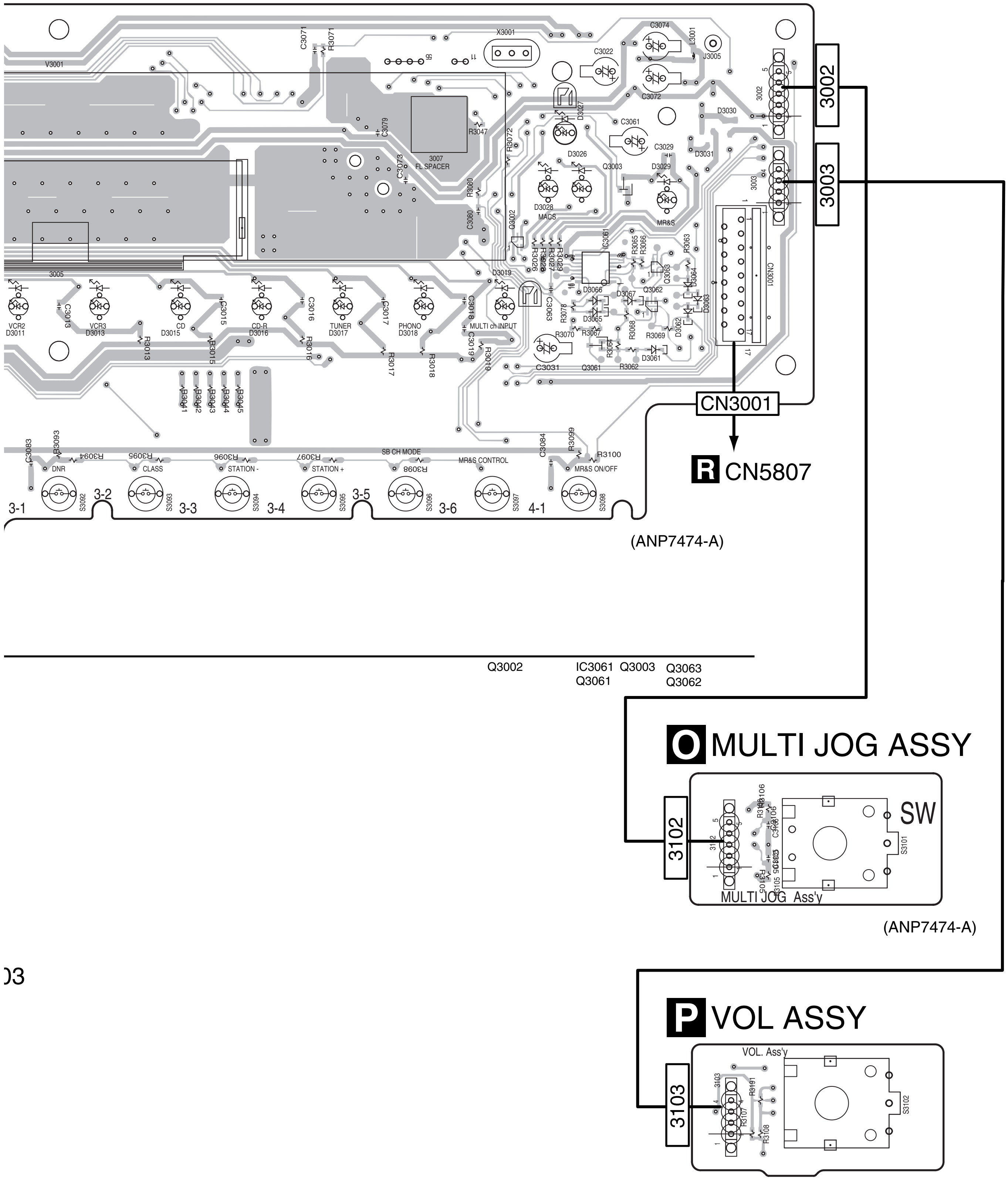
4.10 DISPLAY, INPUT SEL, MULTI JOG, FL SUP. and STANDBY ASSYS

SIDE A


M DISPLAY ASSY
3301
CN3002
3004
DISPLAY Ass'y
3006 FL SPACER
IC3062
IC3002
STANDBY
D3025
ACOUSTIC CAL.
MIDNIGHT
TONE
OPTION
DNR
SP SYSTEM A/B
SIG.SEL.
VIDEO SEL.
TAPE2 MONI.
STREAM DIRECT
DVD/LD D3001
TV/DVD D3003
SAT D3005
VIDEO D3007
DVR/VCR1 D3009
VCR2 D3011
VCR3 D3013
V3001
1-1
1-2
1-3
2-1
2-2
2-3
3-1
3-2
1-5
1-4
2-6
2-5
2-4
Q3052
Q3051
Q3053
Q5001
Q3054
IC3062
IC3002
N INPUT SEL ASSY
3104
R3110
C3111
R3109
C3110
INPUT SEL. Ass'y
S3103
(ANP7474-A)
AE FL SUPPLY ASSY
YG-A3
CN1901
AL CN1803
CN1902
AC2
AC1
FL VH
FL G
C1903
Q1901
FL SUPPLY ASSY
(ANP7388-E)
AF STANDBY ASSY
S1901
CN1903
GND
STANDBY
GND
(ANP7388-E)

M N AE AF

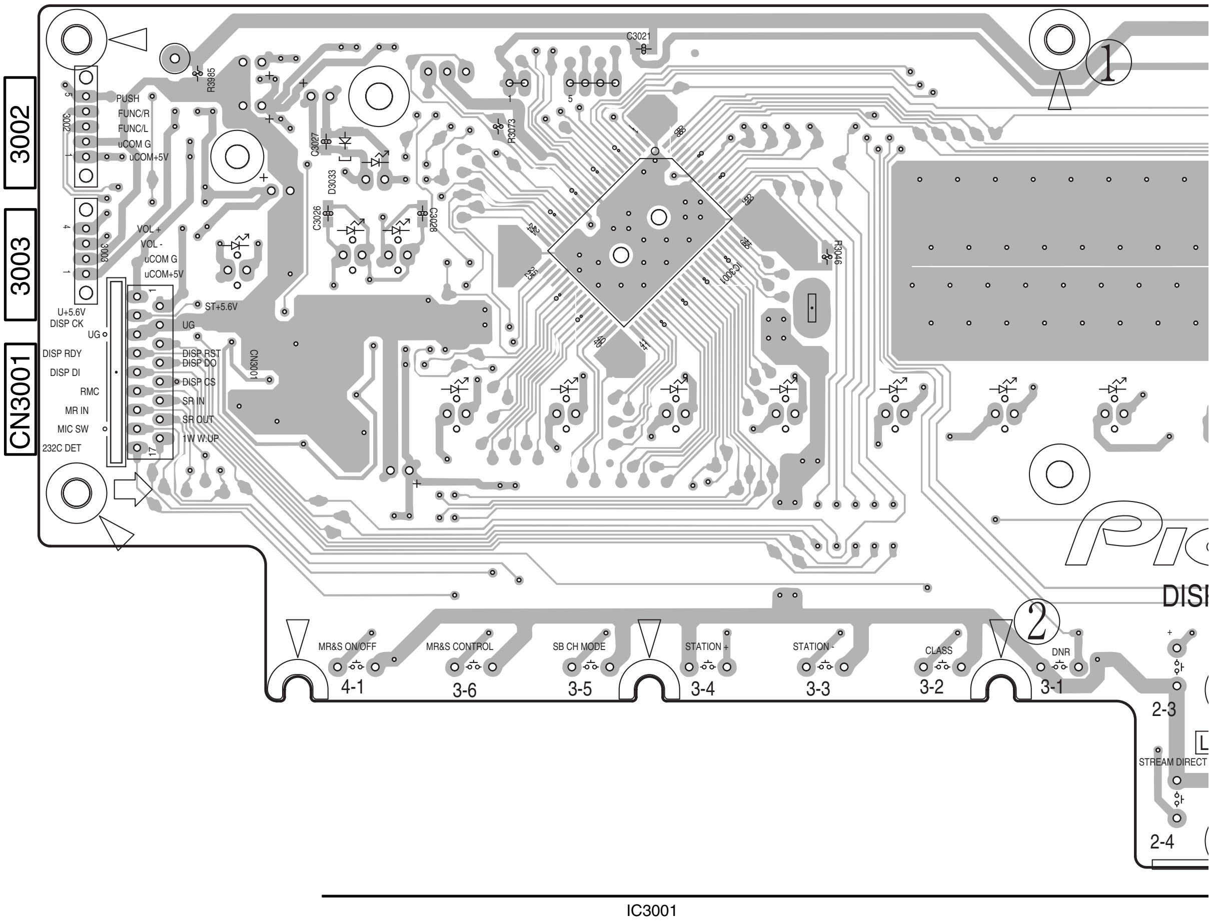
SIDE A


V3001
C3071
R3071
X3001
C3074
C3022
L3001
J3005
C3072
3002
D3030
C3079
R3047
3007
FL SPACER
C3073
D3027
C3061
C3029
D3031
R3072
D3026
Q3003
D3029
3003
R3080
C3080
Q3002
D3028
MACS
MR&S
IC3061
CN3001
3005
VCR2
D3011
C3013
VCR3
D3013
CD
D3015
C3015
CD-R
D3016
C3016
TUNER
D3017
C3017
PHONO
D3018
C3018
D3019
MULTI ch INPUT
C3063
D3066
D3067
Q3062
D3065
R3070
R3067
R3068
R3069
D3061
D3062
D3063
D3064
C3031
Q3061
R3062
R3013
R3015
R3016
R3017
R3018
C3019
R3019
R3041
R3042
R3043
R3044
R3045
CN3001
R CN5807
C3083
R3093
R3094
R3095
R3096
R3097
R3098
SB CH MODE
MR&S CONTROL
C3084
R3099
R3100
DNR
CLASS
STATION -
STATION +
MR&S ON/OFF
S3092
S3093
S3094
S3095
S3096
S3097
S3098
3-1
3-2
3-3
3-4
3-5
3-6
4-1
(ANP7474-A)
Q3002
IC3061
Q3061
Q3003
Q3063
Q3062
03
O MULTI JOG ASSY
3102
SW
S3101
MULTI JOG Ass'y
(ANP7474-A)
P VOL ASSY
VOL. Ass'y
3103
R3107
R3108
S3102
(ANP7474-A)

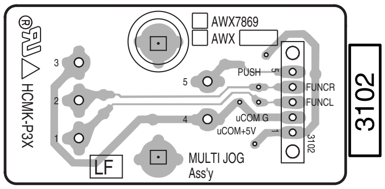
M O P

SIDE B

M DISPLAY ASSY

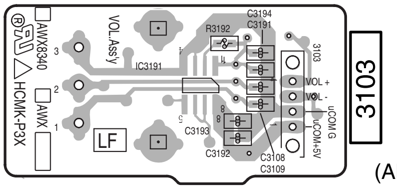

3002
3003
CN3001
PUSH
FUNC/R
FUNC/L
uCOM G
uCOM+5V
VOL +
VOL -
uCOM G
uCOM+5V
U+5.6V
DISP CK
UG
DISP RDY
DISP DI
RMC
MR IN
MIC SW
232C DET
ST+5.6V
UG
DISP RST
DISP DO
DISP CS
SR IN
SR OUT
1W W.UP
R3985
C3021
C3027
D3033
C3026
C3028
R3073
R3046
IC3001
①
②
MR&S ON/OFF
MR&S CONTROL
SB CH MODE
STATION +
STATION -
CLASS
DNR
4-1
3-6
3-5
3-4
3-3
3-2
3-1
2-3
2-4
STREAM DIRECT
DISI
IC3001

O MULTI JOG ASSY


AWX7869
AWX
HCMK-P3X
PUSH
FUNCR
FUNCL
uCOM G
uCOM+5V
3102
LF
MULTI JOG
Ass'y

(ANP7474-A)

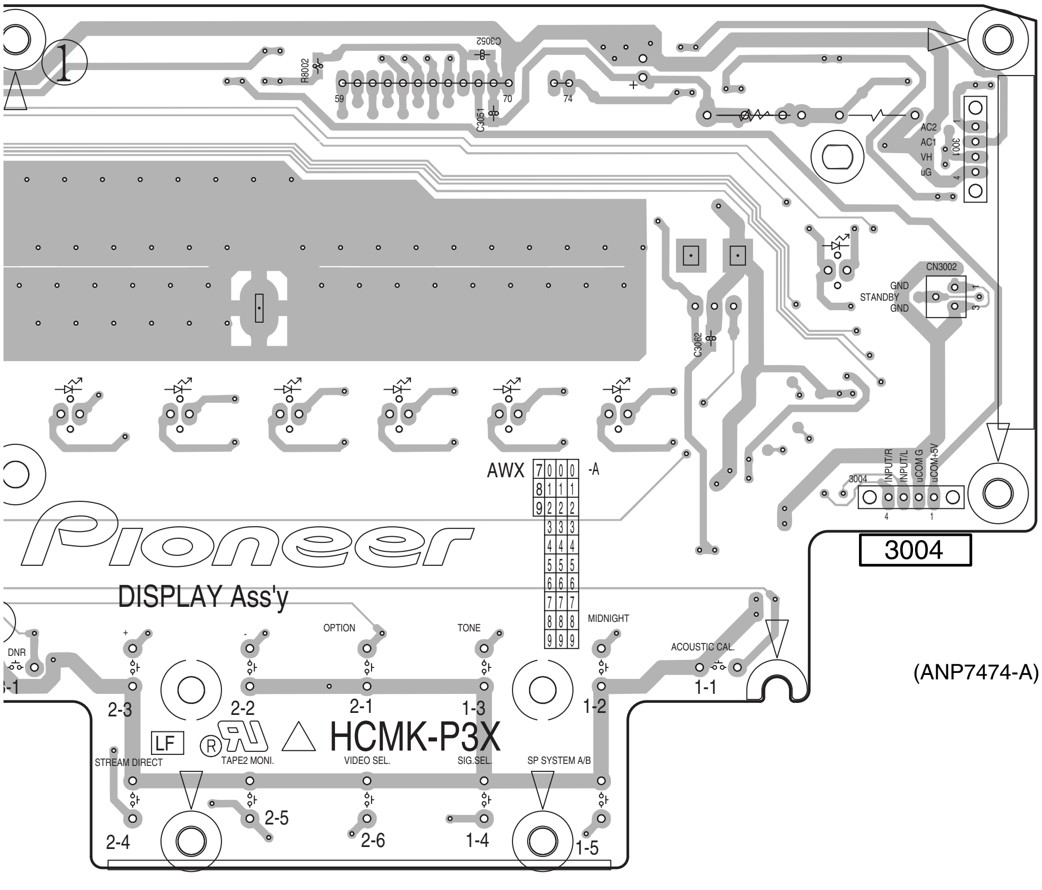
P VOL ASSY


AWX8340
AWX
HCMK-P3X
VOL.Ass'y
IC3191
R3192
C3194
C3191
C3193
C3192
C3108
C3109
VOL +
VOL -
uCOM G
uCOM+5V
3103
LF

(ANP7474-A)

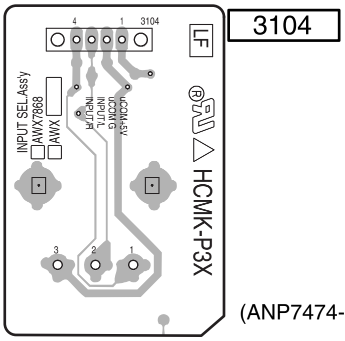
M O P

SIDE B


1
R8002
C3052
59
70
74
C3051
AC2
AC1
VH
uG
3001
CN3002
GND
STANDBY
GND
C3062
AWX
7 0 0 0
8 1 1 1
9 2 2 2
3 3 3
4 4 4
5 5 5
6 6 6
7 7 7
8 8 8
9 9 9
-A
3004
INPUT/R
INPUT/L
uCOM G
uCOM+5V
4
1
3004
Pioneer
DISPLAY Ass'y
+
-
OPTION
TONE
MIDNIGHT
ACOUSTIC CAL.
DNR
2-3
2-2
2-1
1-3
1-2
1-1
LF
HCMK-P3X
STREAM DIRECT
TAPE2 MONI.
VIDEO SEL.
SIG.SEL.
SP SYSTEM A/B
2-5
2-4
2-6
1-4
1-5

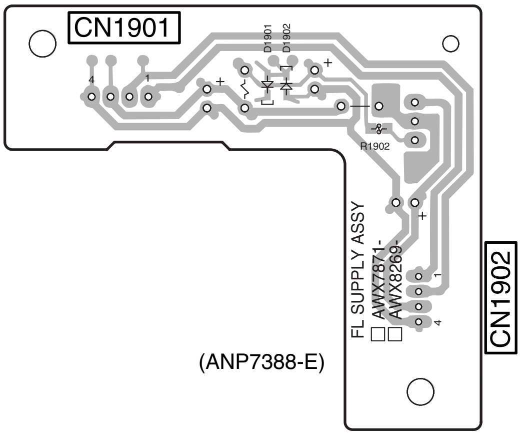
(ANP7474-A)

N INPUT SEL ASSY


4
1
3104
3104
LF
INPUT SEL Ass'y
AWX7868
AWX
INPUT/R
INPUT/L
uCOM G
uCOM+5V
HCMK-P3X
3
2
1

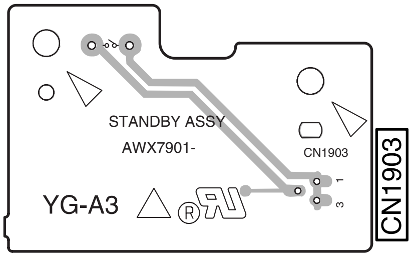
(ANP7474-A)

AE FL SUPPLY ASSY


CN1901
4
1
D1901
D1902
+
R1902
FL SUPPLY ASSY
AWX7871-
AWX8269-
1
4
CN1902

(ANP7388-E)

AF STANDBY ASSY


STANDBY ASSY
AWX7901-
CN1903
1
3
YG-A3
CN1903

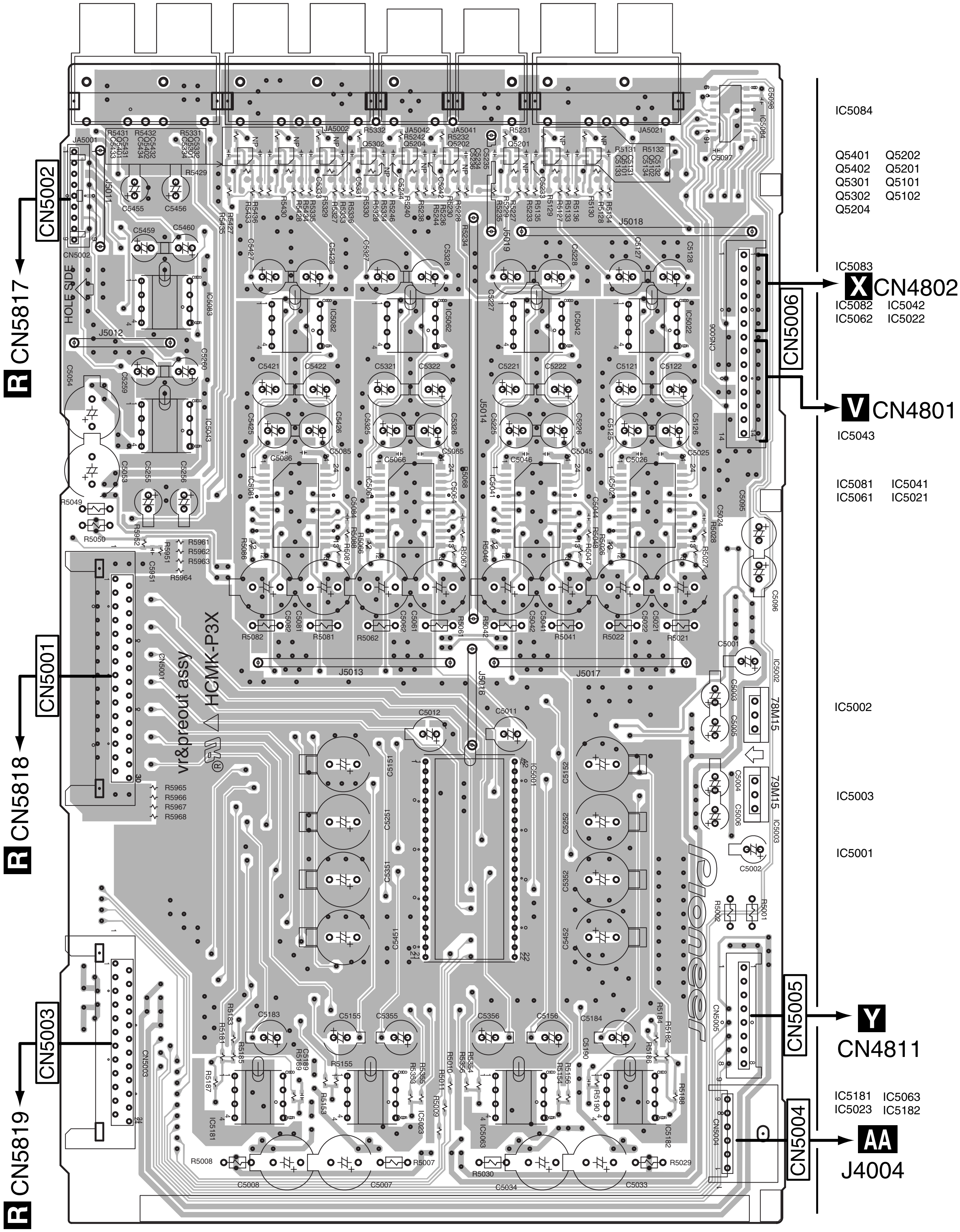
(ANP7388-E)

M N AE AF

4.11 VR & PRE OUT ASSY

SIDE A

Q VR & PRE OUT ASSY

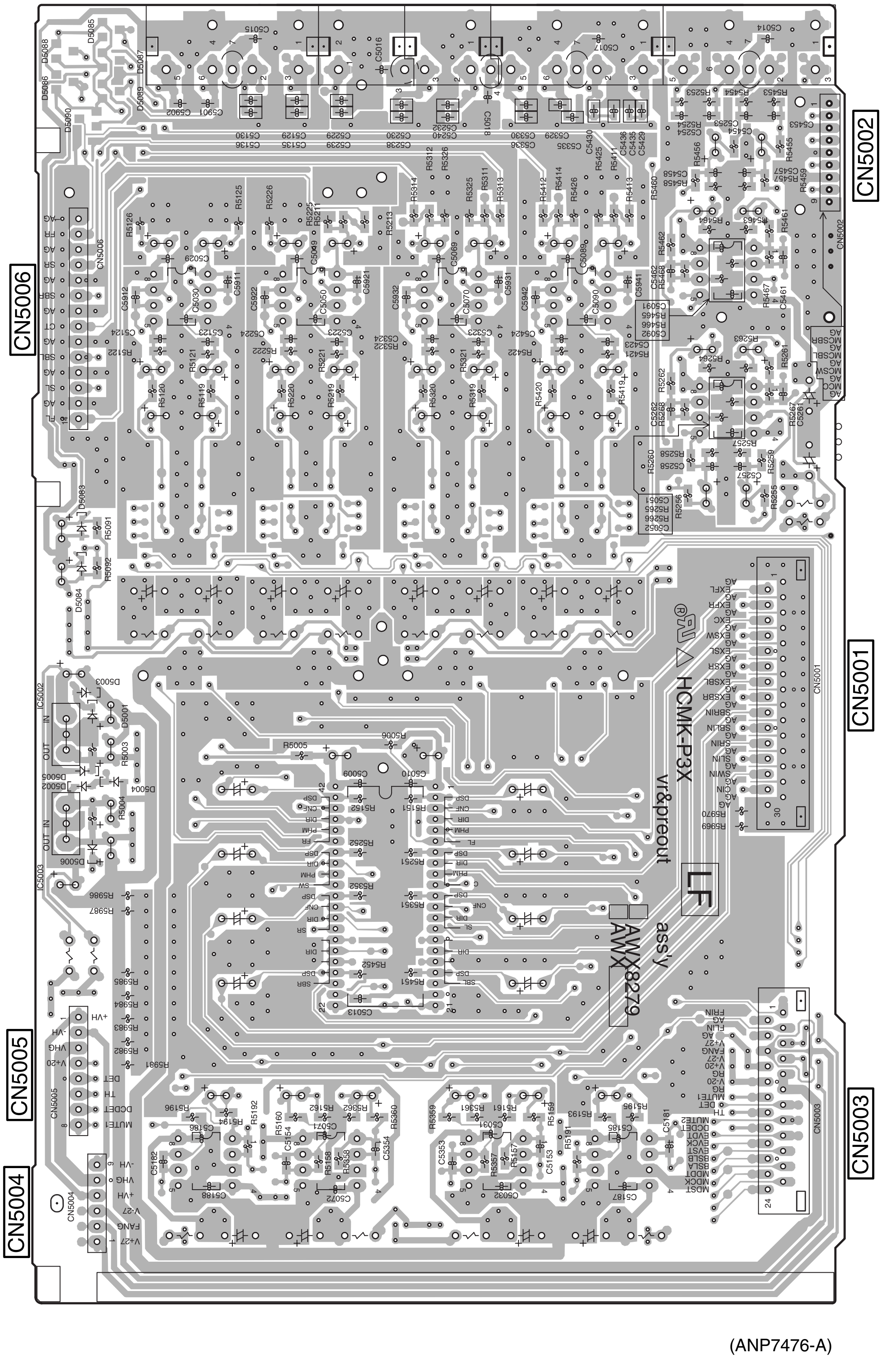

CN5002
R CN5817
HOLE SIDE
CN5001
R CN5818
CN5003
R CN5819
vr&preout assy
HCMK-P3X
JA5001
JA5002
JA5042
JA5041
JA5021
J5011
J5012
J5013
J5014
J5016
J5017
J5018
J5019
IC5001
78M15
79M15
IC5002
IC5003
Pioneer
CN5006
X CN4802
V CN4801
CN5005
Y CN4811
CN5004
AA J4004
IC5084
Q5401 Q5202
Q5402 Q5201
Q5301 Q5101
Q5302 Q5102
Q5204
IC5083
IC5082 IC5042
IC5062 IC5022
IC5043
IC5081 IC5041
IC5061 IC5021
IC5181 IC5063
IC5023 IC5182

(ANP7476-A)

Q

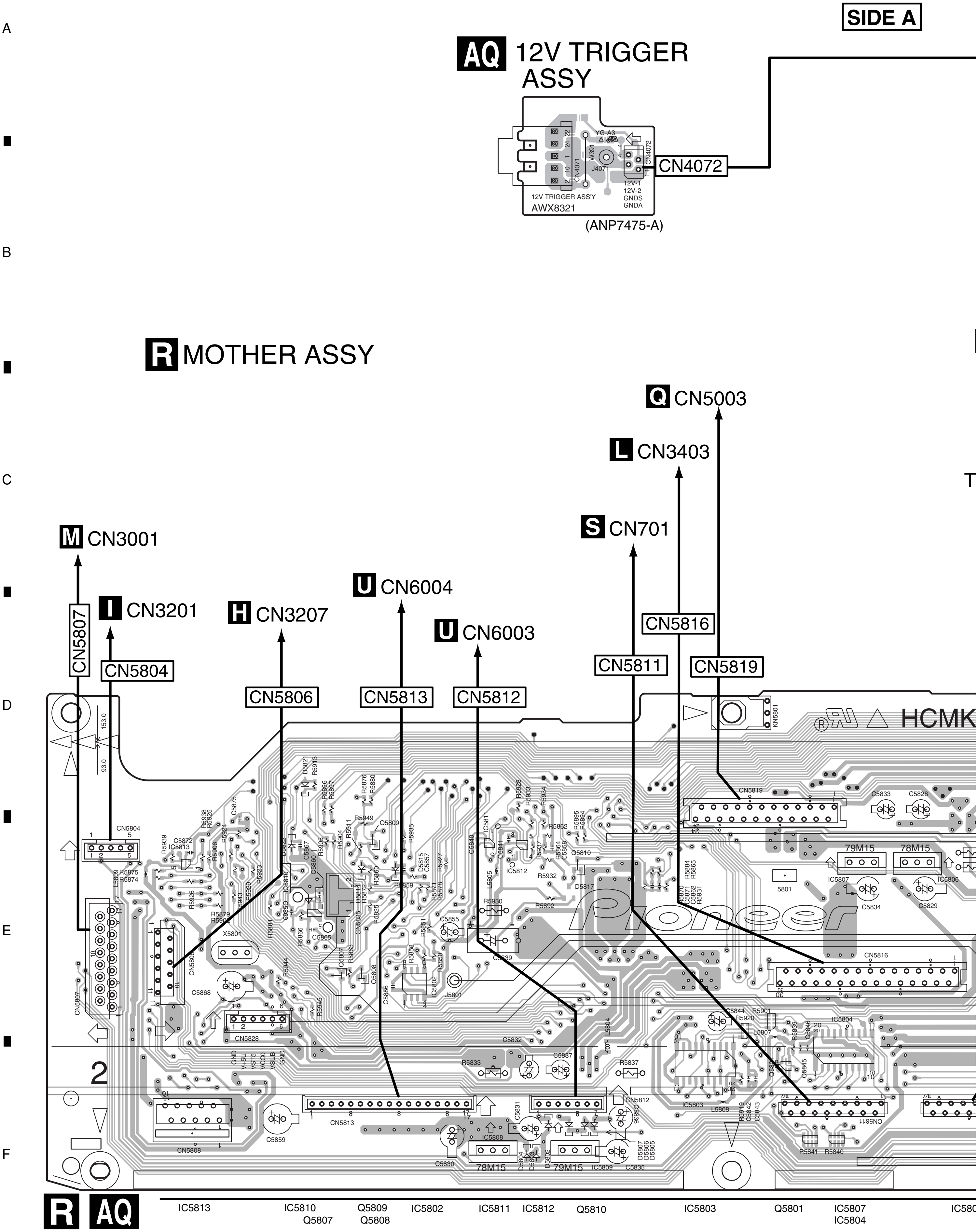
SIDE B

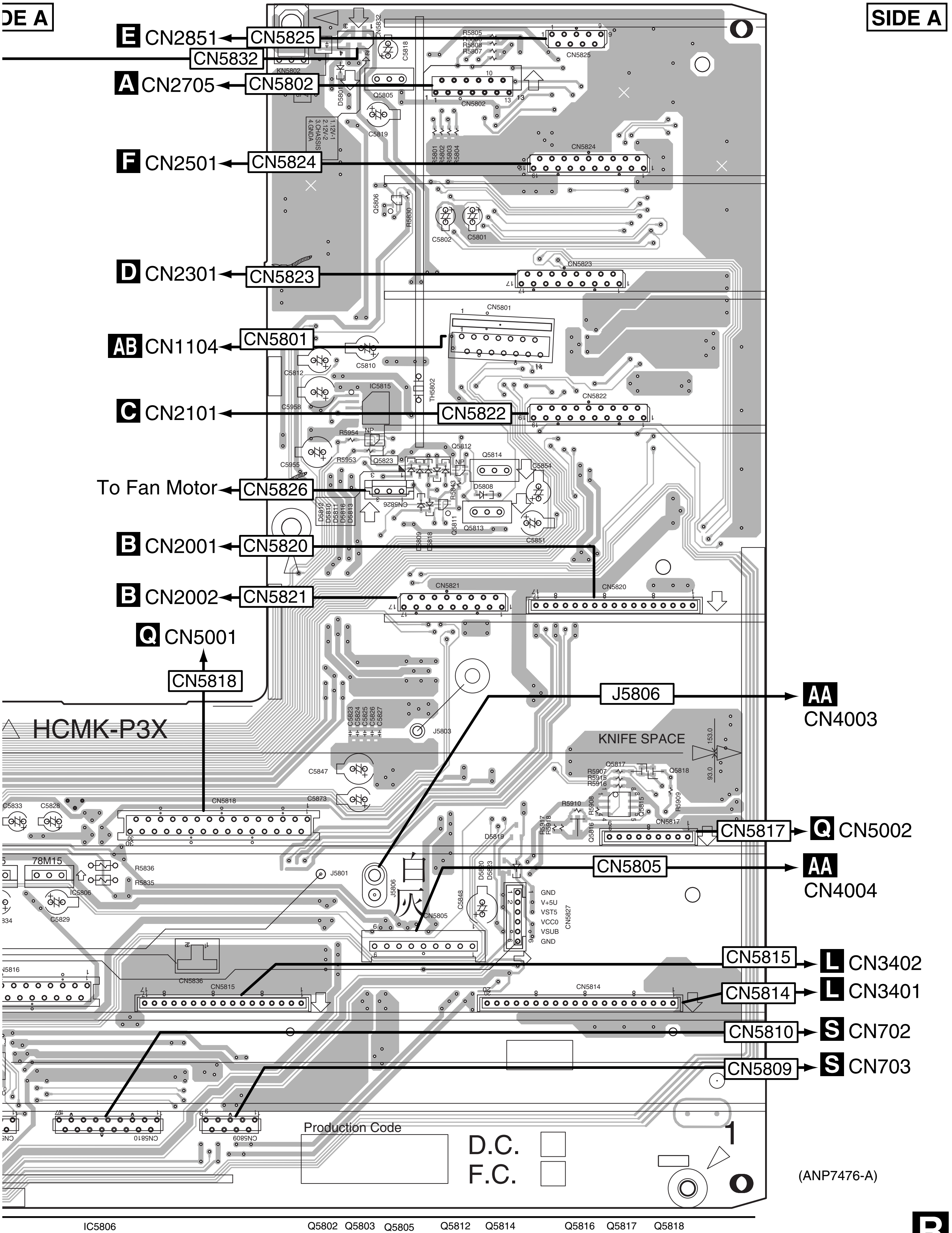
Q VR & PRE OUT ASSY


CN5006
CN5002
CN5001
CN5005
CN5004
CN5003
HCMK-P3X
vr&preout
assy
AWX8279
AWX
LF
IC5002
IC5003
D5003
D5001
D5005
D5002
D5004
D5006
D5083
D5084
D5085
D5086
D5087
D5088
D5089
D5090
OUT
IN
C5009
C5010
C5013
R5005
R5006

(ANP7476-A)

4.12 MOTHER and 12V TRIGGER ASSYS


A
B
C
D
E
F
SIDE A
AQ 12V TRIGGER ASSY
CN4072
CN4071
J4071
W391
YG-A3
12V-1
12V-2
GNDS
GNDA
12V TRIGGER ASS'Y
AWX8321
(ANP7475-A)
R MOTHER ASSY
Q CN5003
L CN3403
S CN701
M CN3001
I CN3201
H CN3207
U CN6004
U CN6003
CN5807
CN5804
CN5806
CN5813
CN5812
CN5811
CN5816
CN5819
CN5828
CN5808
KN5801
HCMK
2
79M15
78M15
IC5807
IC5806
IC5808
IC5809
IC5810
IC5812
IC5803
IC5804
X5801
J5801
GND
V+5U
VST5
VCC0
VSUB
GND
R AQ
IC5813
IC5810
Q5807
Q5809
Q5808
IC5802
IC5811
IC5812
Q5810
IC5803
Q5801
IC5807
IC5804
IC580

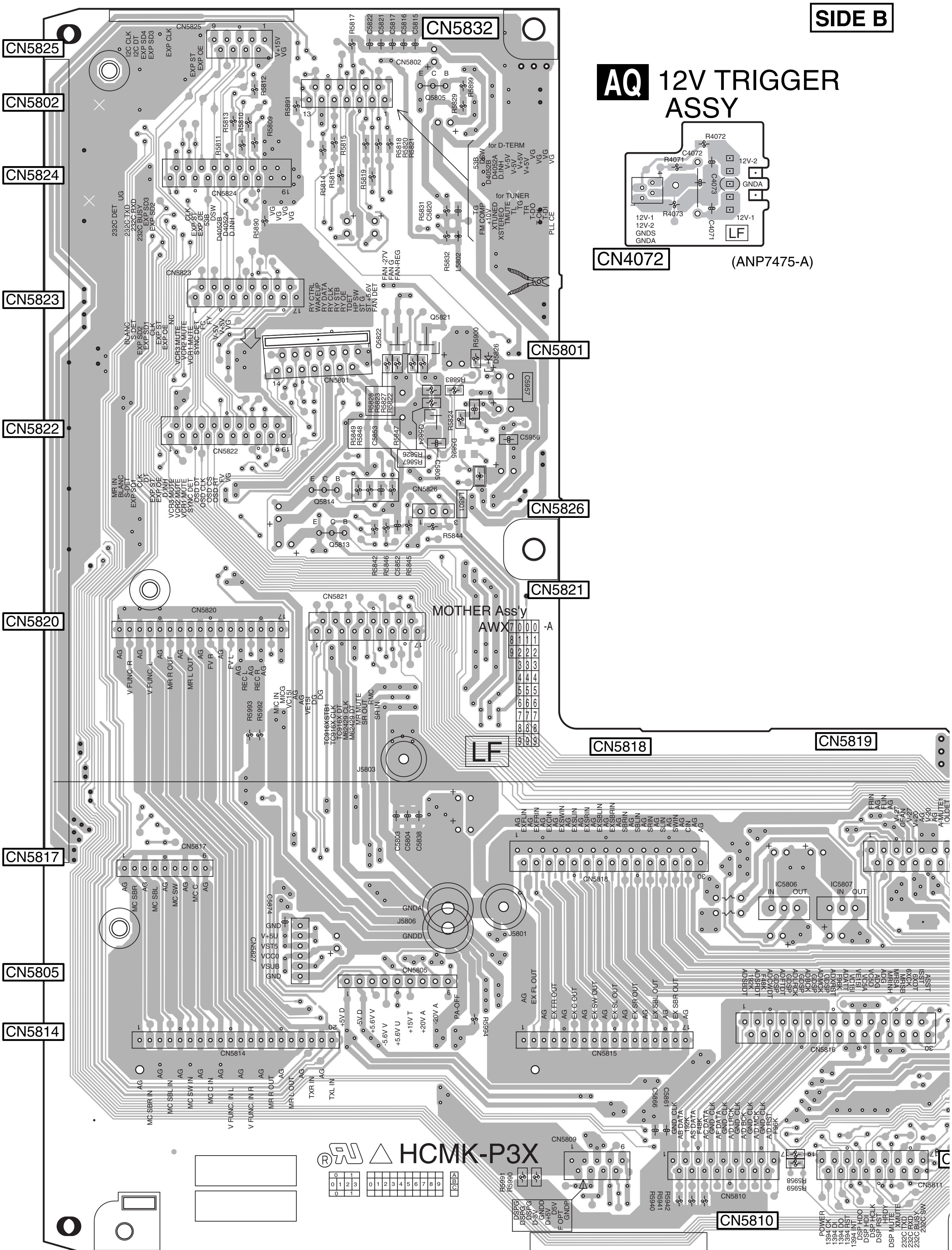

SIDE A
SIDE A
E CN2851 CN5825
CN5832
A CN2705 CN5802
F CN2501 CN5824
D CN2301 CN5823
AB CN1104 CN5801
C CN2101 CN5822
To Fan Motor CN5826
B CN2001 CN5820
B CN2002 CN5821
Q CN5001
CN5818
HCMK-P3X
J5806
AA CN4003
KNIFE SPACE
CN5817 Q CN5002
CN5805 AA CN4004
GND
V+5U
VST5
VCC0
VSUB
GND
CN5815 L CN3402
CN5814 L CN3401
CN5810 S CN702
CN5809 S CN703
Production Code
D.C.
F.C.
(ANP7476-A)
IC5806
Q5802 Q5804
Q5803 IC5815
Q5805 Q5806
Q5812 Q5811
Q5814 Q5813
Q5816
Q5817 Q5815
Q5818

SIDE B

AQ 12V TRIGGER ASSY

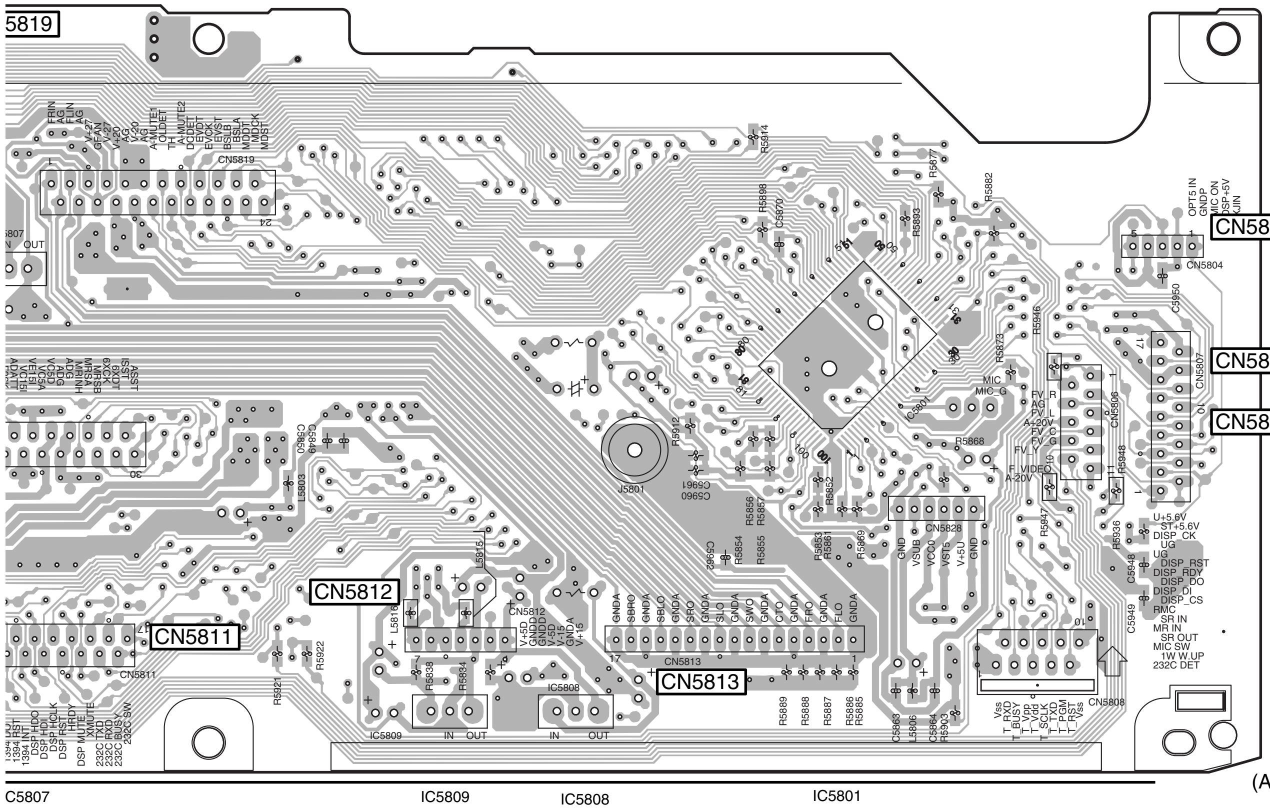
R4072
R4071
C4072
12V-2
C4073
GNDA
R4073
12V-1
12V-2
GNDS
GNDA
C4071
12V-1
LF
CN4072

(ANP7475-A)


CN5825
CN5802
CN5824
CN5823
CN5822
CN5820
CN5817
CN5805
CN5814
CN5832
CN5801
CN5826
CN5821
CN5818
CN5819
CN5810
CN5809
CN5811
CN5806
CN5815
CN5816
CN5827
MOTHER Ass'y
AWX
LF
J5803
J5806
J5801
IC5806
IC5807
Q5805
Q5821
Q5822
Q5824
Q5813
Q5814
HCMK-P3X
for D-TERM
for TUNER

Q5814 Q5813 Q5805 Q5822 Q5821 Q5824 IC5806 IC5807

R MOTHER ASSY

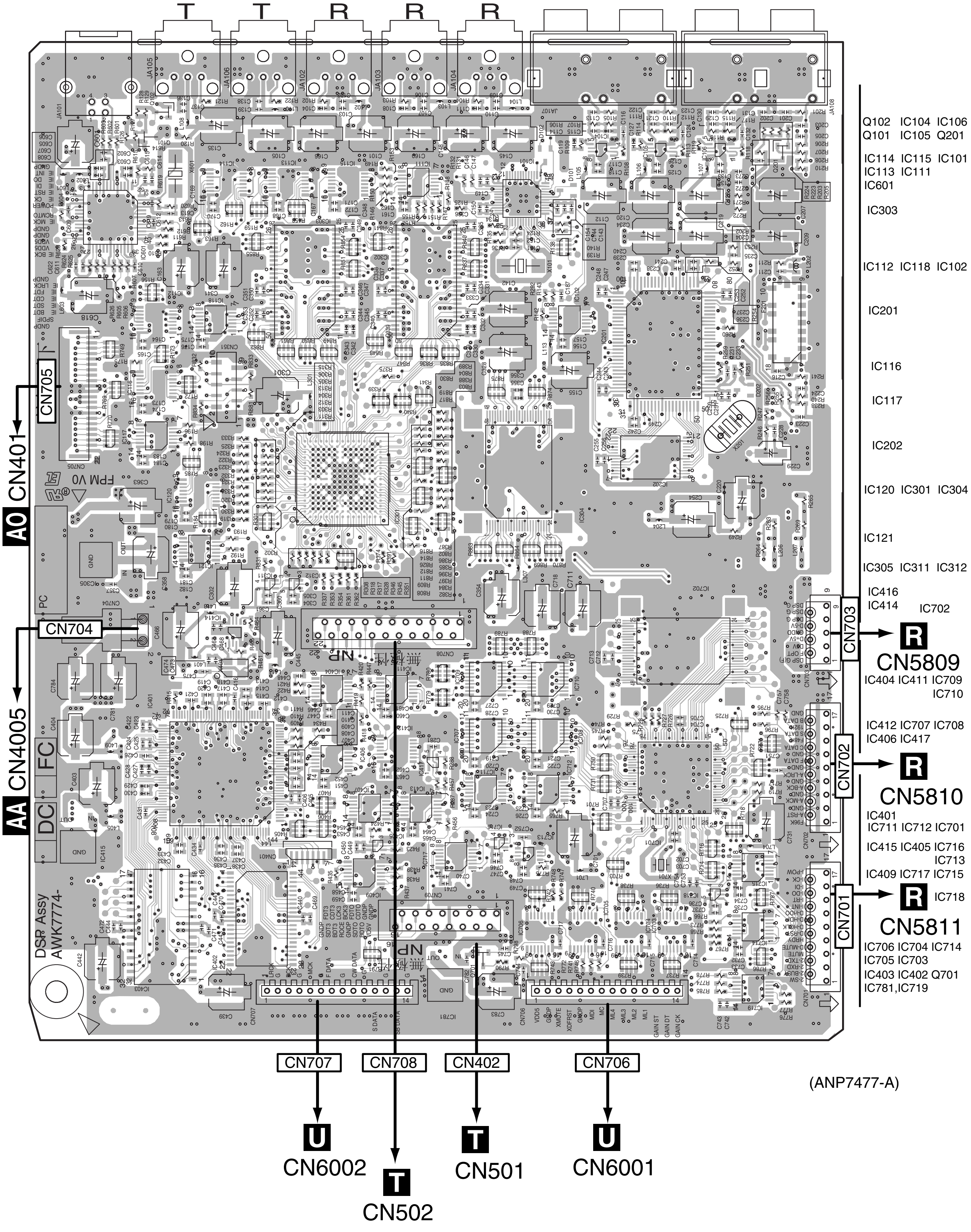

5819
CN5819
CN5804
CN5807
CN5806
CN5812
CN5811
CN5813
CN5808
CN5828
J5801
IC5808
IC5809
IC5807
IC5809
IC5808
IC5801

(ANP7476-A) **R**

4.13 DSP ASSY

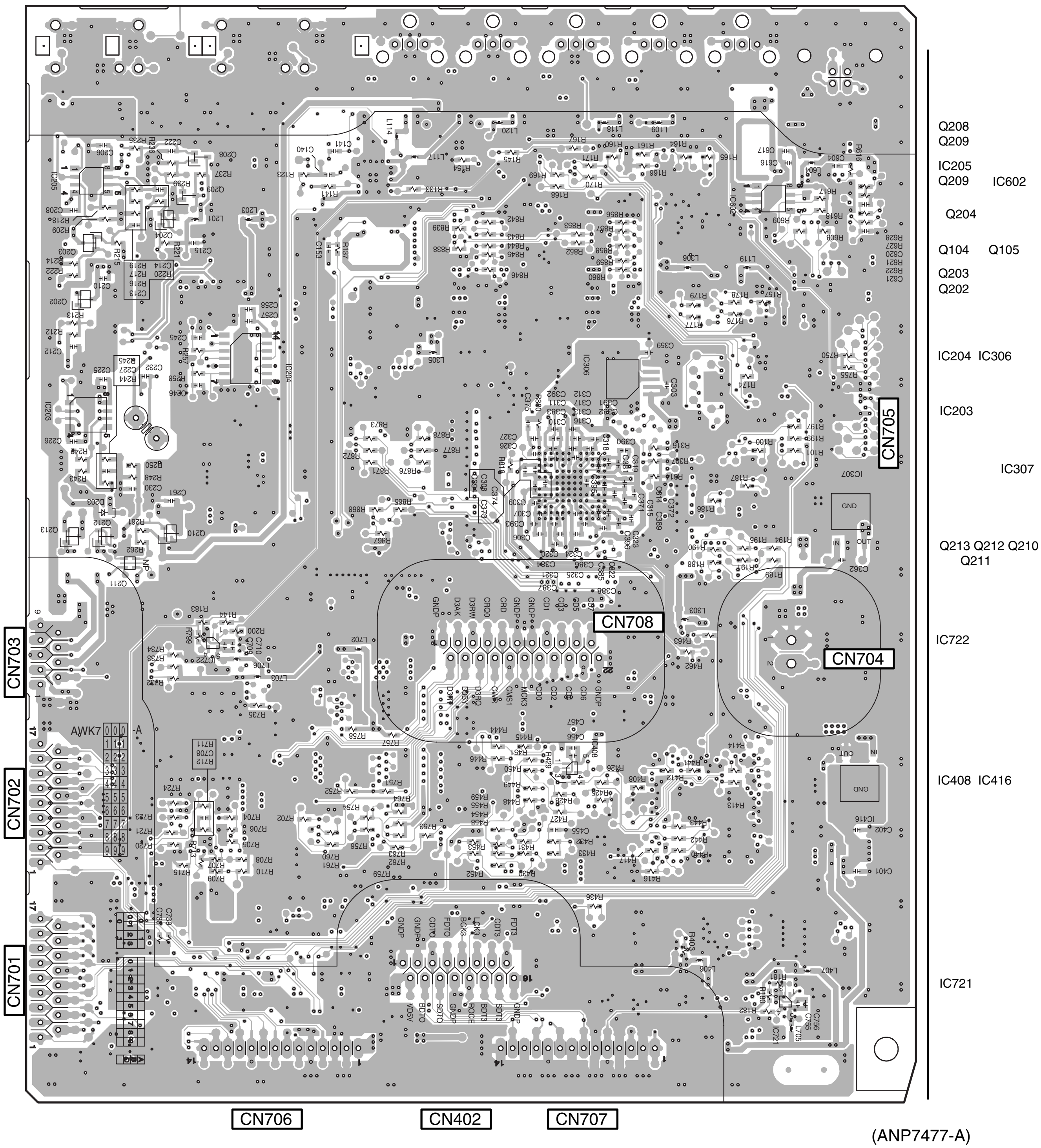
S DSP ASSY

SIDE A


T
T
R
R
R
JA105
JA106
JA102
JA103
JA104
JA101
JA107
JA108
Q102 IC104 IC106
Q101 IC105 Q201
IC114 IC115 IC101
IC113 IC111
IC601
IC303
IC112 IC118 IC102
IC201
IC116
IC117
IC202
IC120 IC301 IC304
IC121
IC305 IC311 IC312
IC416
IC414
IC702
CN703
R
CN5809
IC404 IC411 IC709
IC710
IC412 IC707 IC708
IC406 IC417
CN702
R
CN5810
IC401
IC711 IC712 IC701
IC415 IC405 IC716
IC713
IC409 IC717 IC715
CN701
R
IC718
CN5811
IC706 IC704 IC714
IC705 IC703
IC403 IC402 Q701
IC781,IC719
CN705
CN401
AO
CN704
CN4005
FC
DC
AA
PC
DSP Assy
AWK7774-
CN707
CN708
CN402
CN706
U
CN6002
T
CN502
T
CN501
U
CN6001
(ANP7477-A)

SIDE B

S DSP ASSY

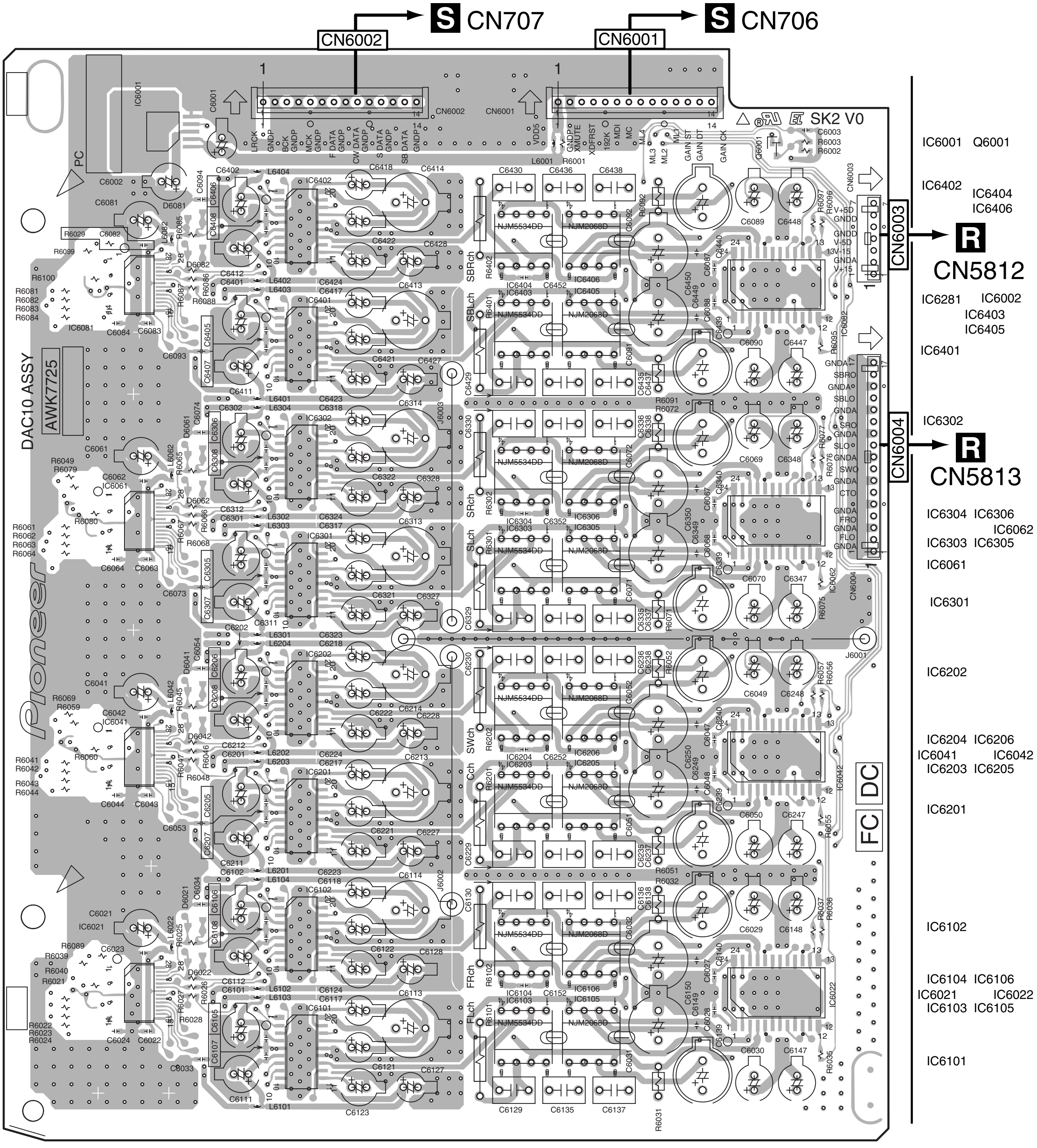

Q208
Q209
IC205
Q209 IC602
Q204
Q104 Q105
Q203
Q202
IC204 IC306
IC203
IC307
Q213 Q212 Q210
Q211
IC722
IC408 IC416
IC721
CN705
CN708
CN704
CN703
CN702
CN701
CN706
CN402
CN707

(ANP7477-A)

4.14 DAC10 ASSY

SIDE A

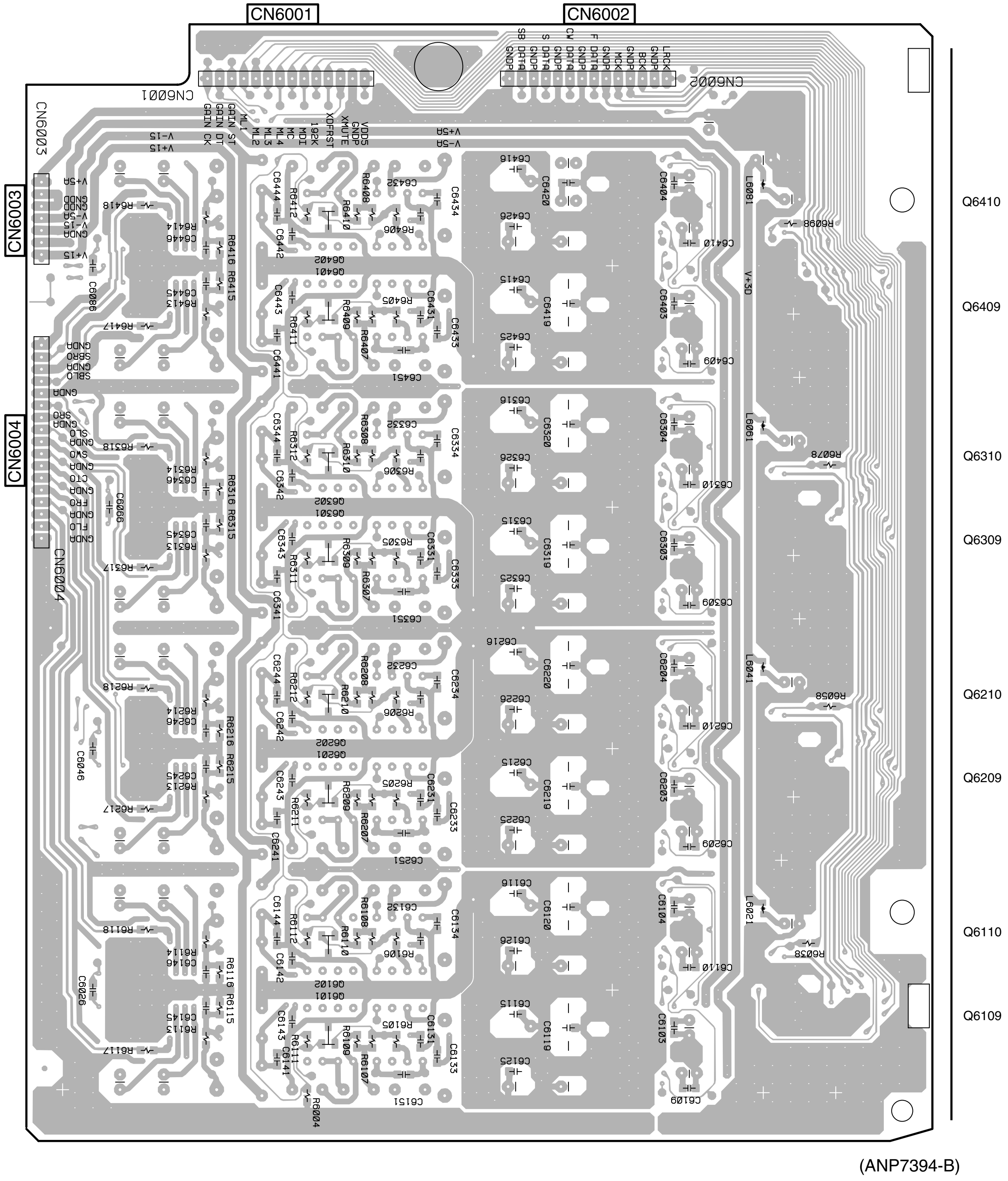
U DAC10 ASSY


S CN707
CN6002
S CN706
CN6001
1
1
14
14
LRCK
GNDP
BCK
GNDP
MCK
GNDP
F DATA
GNDP
CW DATA
GNDP
S DATA
GNDP
SB DATA
GNDP
VDD5
GNDP
XMUTE
XDFRST
192K
MDI
MC
ML4
ML3
ML2
ML1
GAIN ST
GAIN DT
GAIN CK
SK2 V0
V+5D
GNDD
GNDD
V-5D
13V-15
GNDA
V+15
CN6003
R CN5812
GNDA
SBRO
GNDA
SBLO
GNDA
SRO
GNDA
SLO
GNDA
SWO
GNDA
CTO
GNDA
FRO
GNDA
FLO
GNDA
CN6004
R CN5813
IC6001 Q6001
IC6402
IC6404
IC6406
IC6281 IC6002
IC6403
IC6405
IC6401
IC6302
IC6304 IC6306
IC6062
IC6303 IC6305
IC6061
IC6301
IC6202
IC6204 IC6206
IC6041 IC6042
IC6203 IC6205
IC6201
IC6102
IC6104 IC6106
IC6021 IC6022
IC6103 IC6105
IC6101
SBRch
SBLch
SRch
SLch
SWch
Cch
FRch
FLch
NJM5534DD
NJM2068D
DAC10 ASSY
AWK7725
Pioneer
PC
DC
FC
J6001
J6002
J6003

(ANP7394-B)

SIDE B

U DAC10 ASSY


CN6001
CN6002
CN6003
CN6004
Q6410
Q6409
Q6310
Q6309
Q6210
Q6209
Q6110
Q6109
LRCK
GNDP
BCK
MCK
F DATA
C W DATA
S DATA
SB DATA
GAIN CK
GAIN DT
GAIN ST
ML1
ML2
ML3
ML4
MC
MDI
192K
XDFRST
XMUTE
GNDP
VDD5
V+5A
V-5A
V+15
V-15
V+3D
GNDA
SBRO
SBLO
SRO
SLO
SWO
CTO
FRO
FLO

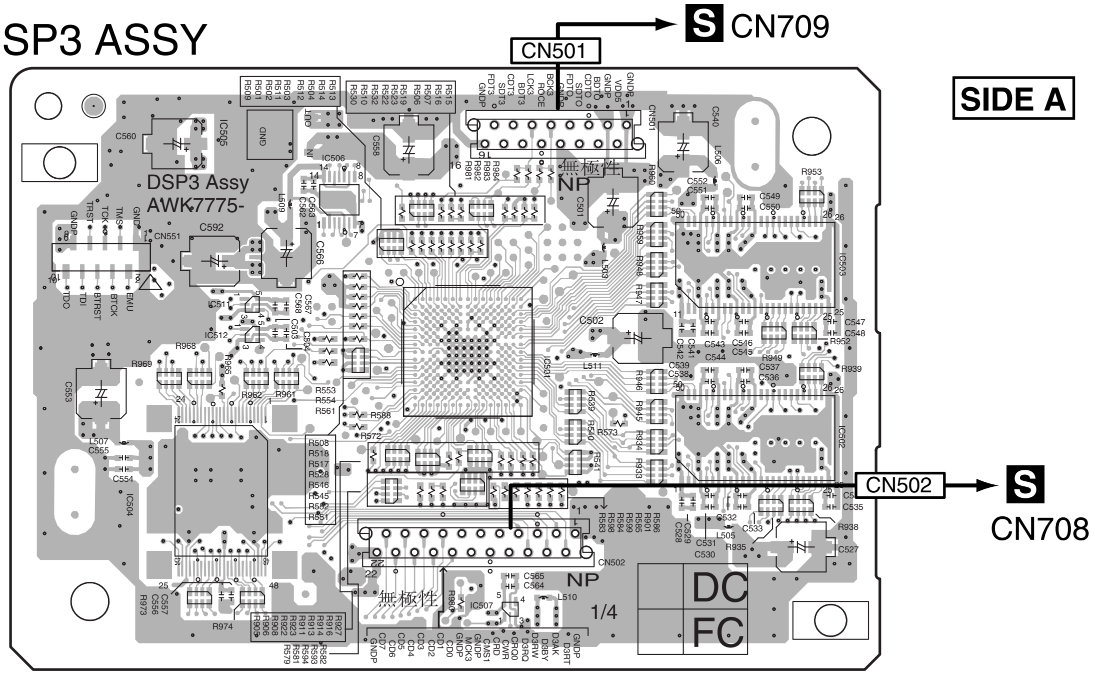
(ANP7394-B)

4.15 DSP3 ASSY

SIDE A

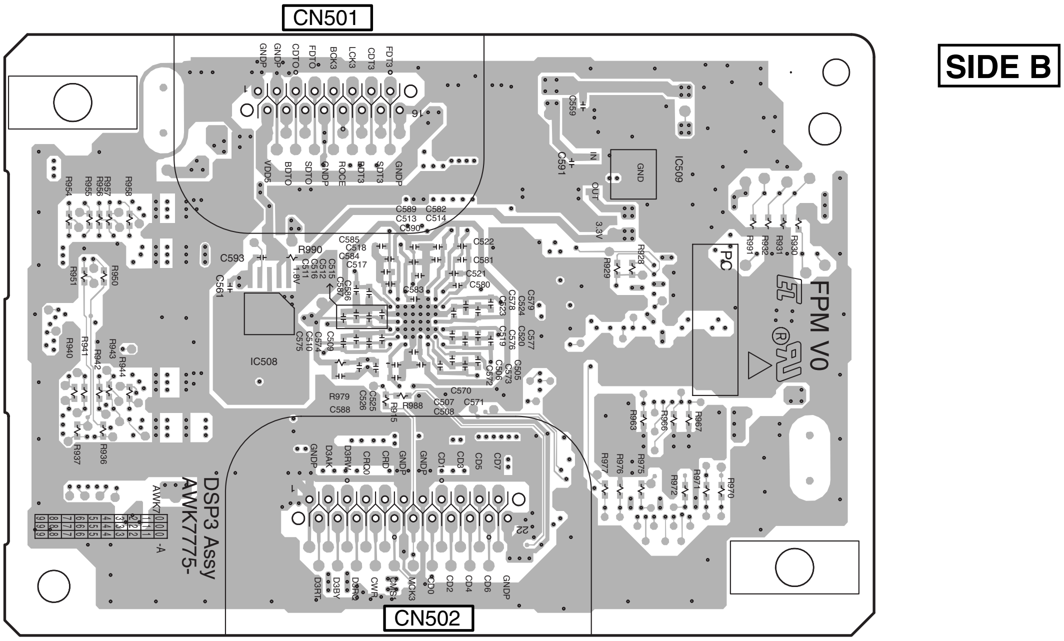
SIDE B

T DSP3 ASSY


S CN709
CN501
SIDE A
DSP3 Assy
AWK7775-
NP
無極性
CN502
S
CN708
DC
FC
1/4

IC504 IC505 ICP25 ICP32 ICP1 ICP11 ICP8 IC503
IC511 IC506 ICP27 ICP9 ICP3 ICP14 ICP18 IC502
IC512 ICP30 ICP20 ICP5 ICP17
ICT88 ICP29 ICP2 ICP6 ICP19
ICP31 ICP35 ICP41 ICP4 ICP16
ICP34 ICP24 ICP39 ICP7 ICP22
ICP33 ICP28 IC507 ICP12 ICP23
ICP36 ICP40 ICP10 ICP45
ICT98 ICP42 ICP21 ICP13
ICP44 ICP43 ICP15
ICP38 IC501 ICP26 ICP37

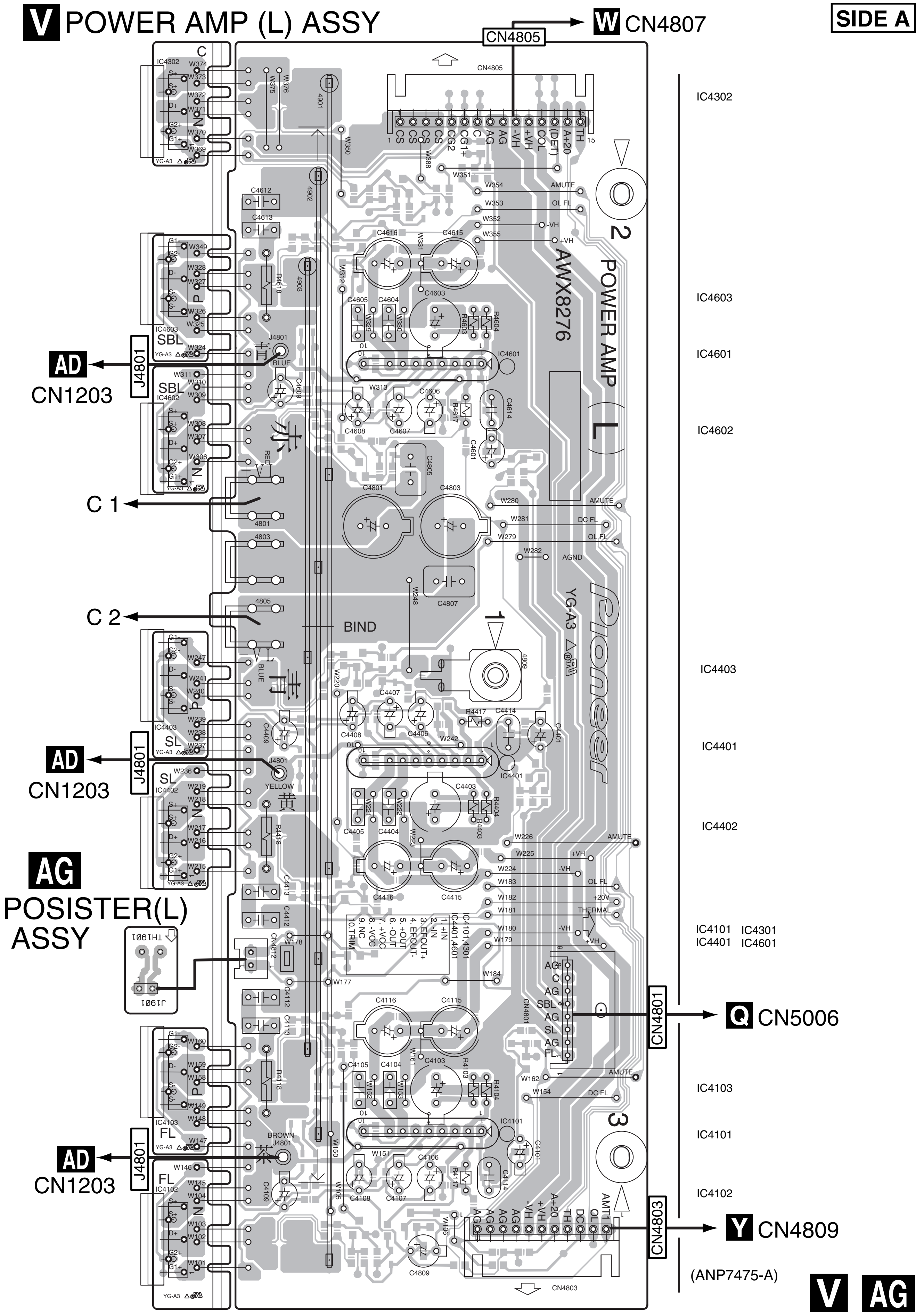
(ANP7478-A)


CN501
SIDE B
DSP3 Assy
AWK7775-
IC508
IC509
FPM V0
CN502

ICT86 ICT60 ICT47 ICT49 ICT50 ICT66 ICT71 ICT25 ICT73
ICT32 ICT59 ICT48 ICT68 ICT12 ICT13 ICT20
ICT58 ICT29 ICT81 IC508 ICT75 ICT11 ICT69 ICT82
ICT31 ICT55 ICT61 ICT26 ICT10 ICT51 ICT70
ICT53 ICT54 ICT13 ICT21 ICT24
ICT57 ICT62 ICT46 ICT22
ICT30 ICT80 ICT74 ICT44 IC509
ICT64 ICT15 ICT36
ICT27 ICT28 ICT14 ICT41 ICT37 ICT16
ICT52 ICT56 ICT17 ICT23 ICT72
ICT65 ICT39 ICT35
ICT85 ICT78 ICT76 ICT45 ICT42 ICT38 ICT34
ICT79 ICT77 ICT63 ICT43 ICT40 ICT37 ICT33

(ANP7478-A)

4.16 POWER AMP(L) and POSISTER(L) ASSYS



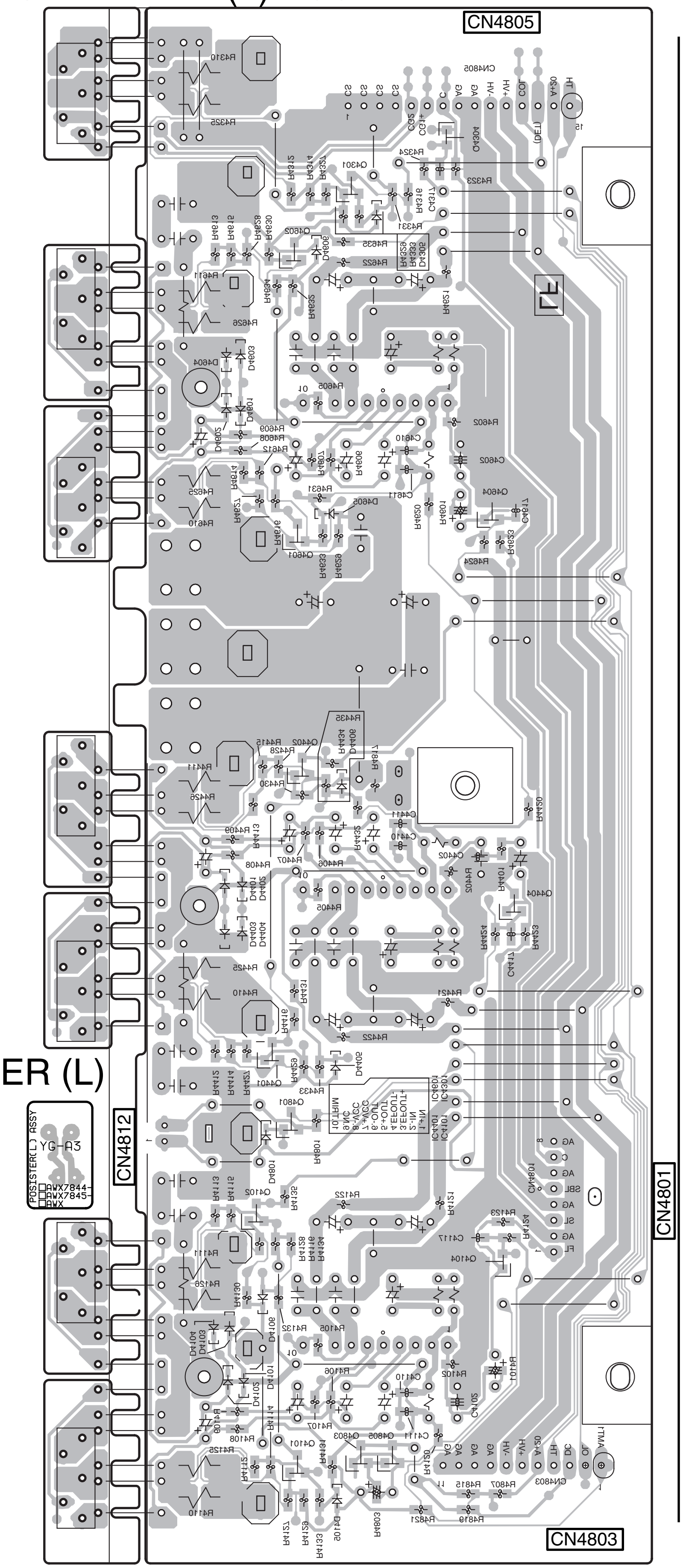
V POWER AMP (L) ASSY
W CN4807
CN4805
SIDE A
A
B
C
D
E
F
IC4302
IC4603
IC4601
IC4602
IC4403
IC4401
IC4402
IC4101 IC4301
IC4401 IC4601
IC4103
IC4101
IC4102
AD CN1203
J4801
C 1
C 2
AG POSISTER(L) ASSY
TH1901
J1901
CN4801
Q CN5006
CN4803
Y CN4809
(ANP7475-A)
V AG
POWER AMP (L)
AWX8276
YG-A3
Pioneer
BIND
BLUE
RED
YELLOW
BROWN
1 +IN
2. -IN
3. EFOUT+
4. EFOUT-
5. +OUT
6. -OUT
7. +VCC
8. -VCC
9. NC
10.TRIM
IC4101,4301
IC4401,4601
CS CS CS CS CG2 CG1+ C AG AG -VH +VH COL (DET) A+20 TH
AG C AG SBL AG SL AG FL
AGI AG AG AG -VH +VH A+20 TH DC OL AMT

SIDE B

V POWER AMP (L) ASSY

SIDE B

AG POSISTER (L) ASSY


CN4805
CN4812
CN4801
CN4803
POSISTER(L) ASSY
YG-A3
AWX7844
AWX7845
AWX

Q4304

Q4301

Q4602

Q4604

Q4601

Q4402

Q4404

Q4801

IC4101 IC4301
IC4401 IC4601

Q4401

Q4102

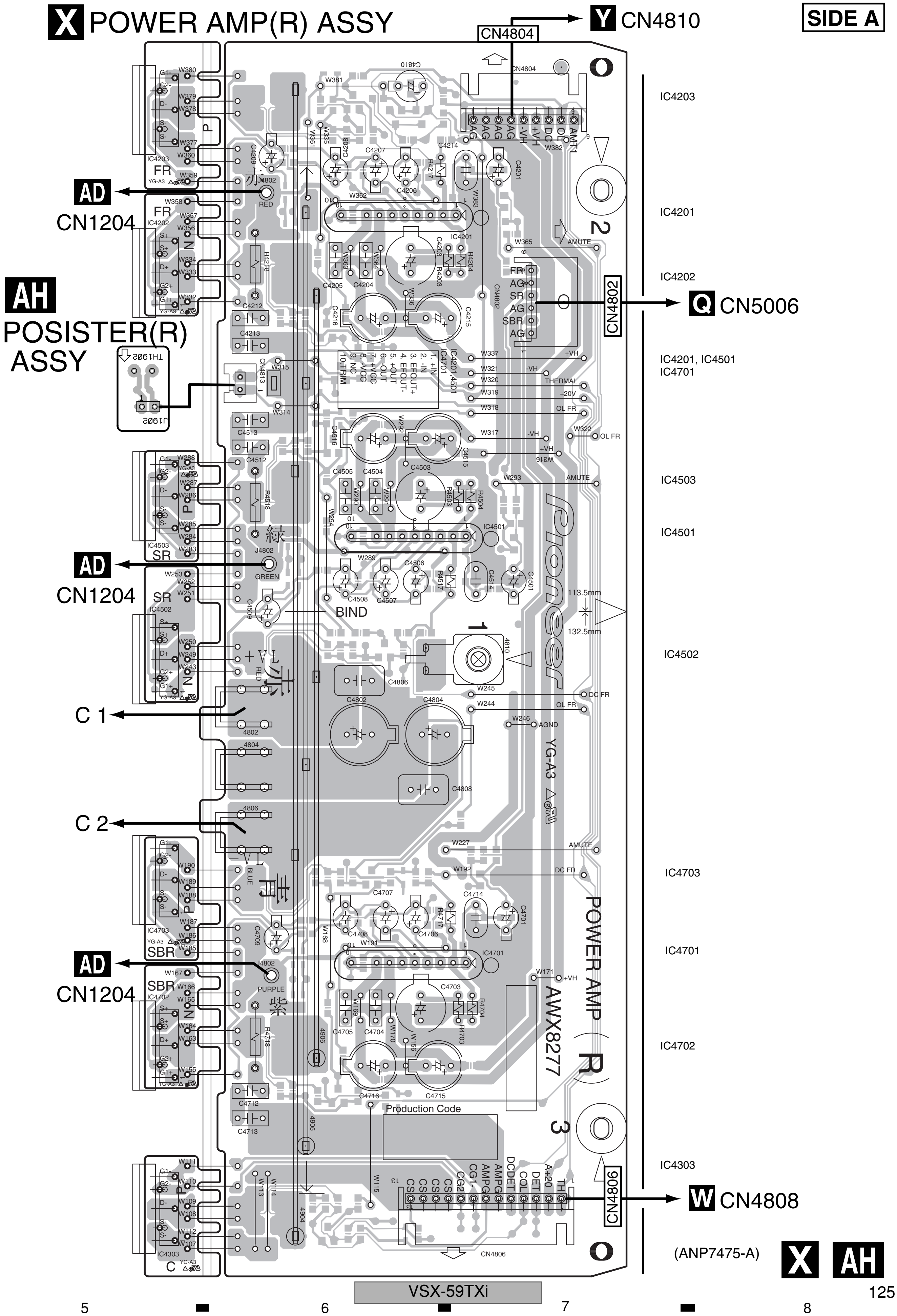
Q4104

Q4101 Q4803
Q4805

(ANP7475-A)

V AG

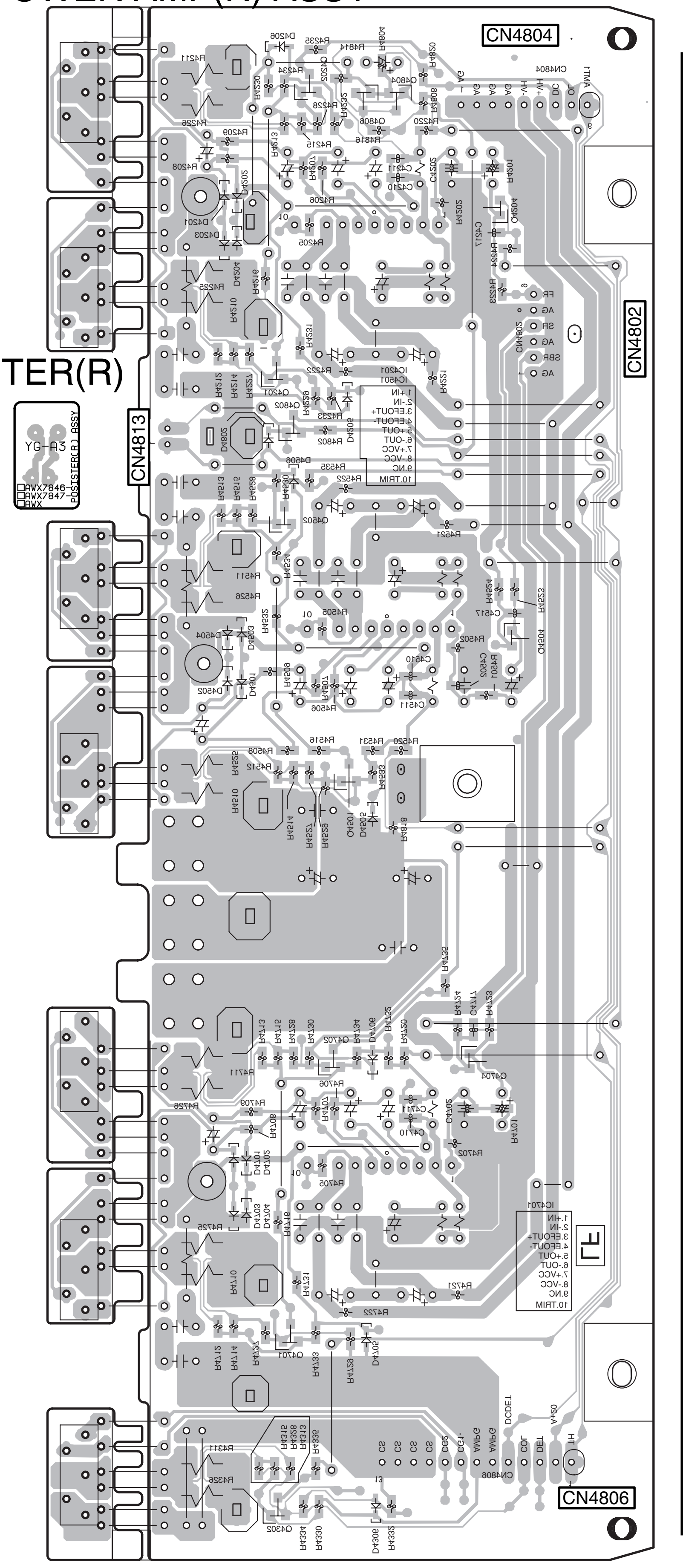
4.17 POWER AMP(R) and POSISTER(R) ASSYS


X POWER AMP(R) ASSY
Y CN4810
CN4804
SIDE A
AD
CN1204
AH
POSISTER(R)
ASSY
TH1902
J1902
CN4813
AD
CN1204
C 1
C 2
AD
CN1204
Q CN5006
CN4802
W CN4808
CN4806
IC4203
IC4201
IC4202
IC4201, IC4501
IC4701
IC4503
IC4501
IC4502
IC4703
IC4701
IC4702
IC4303
FR
SR
SBR
C
AG AG AG AG -VH +VH DC OL AMT
FR AG SR AG SBR AG
1. +IN
2. -IN
3. EFOUT+
4. EFOUT-
5. +OUT
6. -OUT
7. +VCC
8. -VCC
9. NC
10. TRIM
RED
GREEN
PURPLE
BLUE
BIND
113.5mm
132.5mm
4810
YG-A3
POWER AMP（R）
AWX8277
Production Code
TH A+20 DET COL DCDET AMPG AMPG CG1- CG2 CS CS CS CS
+VH -VH THERMAL +20V OL FR AMUTE DC FR AGND
(ANP7475-A)
X AH

SIDE B **X** POWER AMP(R) ASSY

SIDE B

AH POSISTER(R) ASSY


YG-A3
POSISTER(R) ASSY
☐AWX7846-
☐AWX7847-
☐AWX

CN4804
CN4802
CN4813
CN4806
IC4201
IC4501
IC4701
Q4806
Q4202
Q4804
Q4204
Q4201
IC4501
Q4802
IC4201
Q4502
Q4504
Q4501
Q4702
Q4704
IC4701
Q4701
Q4302

X **AH**

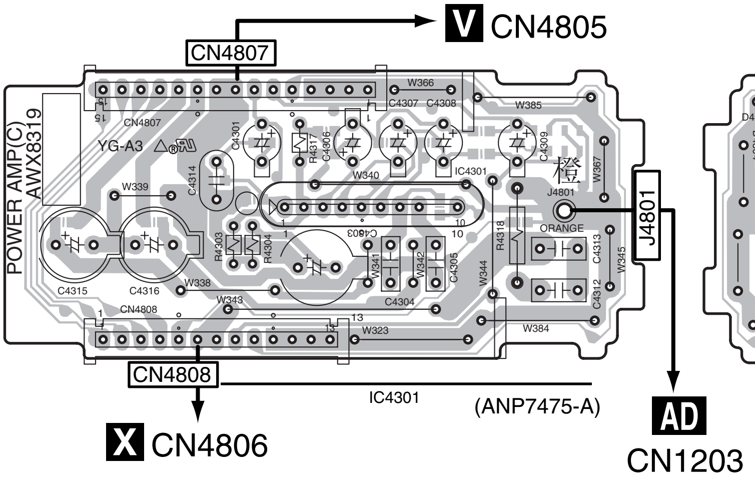
(ANP7475-A)

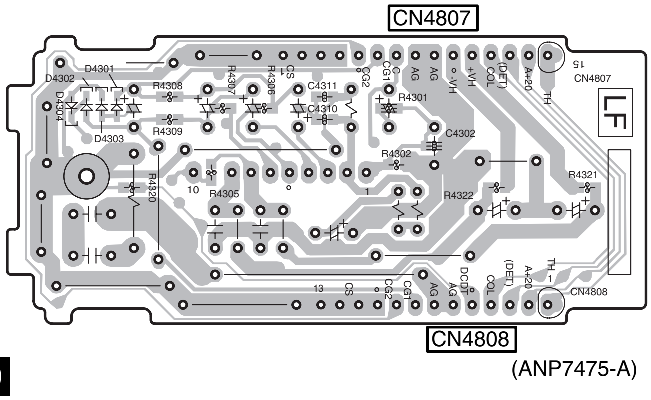
X **AH**

4.18 POWER AMP(C), POWER AMP(BR) and POWER AMP(G) ASSYS

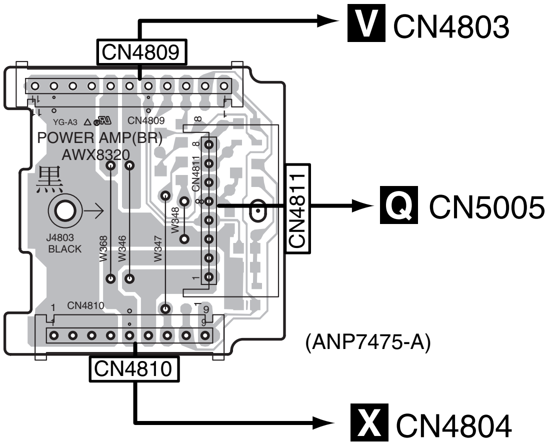
SIDE A **SIDE B**

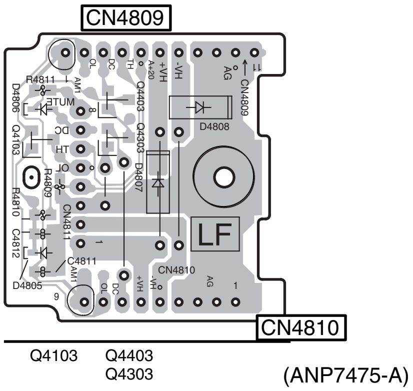
W POWER AMP (C) ASSY


V CN4805
CN4807
POWER AMP(C)
AWX8319
YG-A3
CN4807
W366
C4307
C4308
W385
C4301
R4317
C4306
W340
IC4301
C4309
W367
C4314
W339
J4801
ORANGE
J4801
R4303
R4304
C4303
W341
W342
C4305
R4318
W344
C4313
W345
C4315
C4316
W338
CN4808
W343
C4304
C4312
W323
W384
CN4808
IC4301
(ANP7475-A)
X CN4806
AD
CN1203

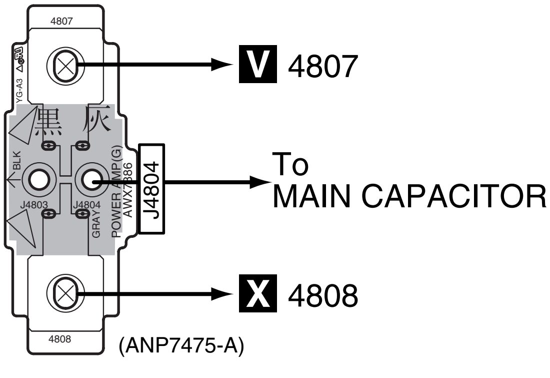

CN4807
D4302
D4301
R4308
R4307
R4306
CS
C4311
CG2
CG1
AG
AG
-VH
+VH
COL
(DET)
A+20
TH
CN4807
LF
D4304
C4310
R4301
D4303
R4309
C4302
R4302
R4320
R4305
R4321
R4322
CS
CG2
CG1
AG
AG
DCDT
COL
(DET)
A+20
TH
CN4808
CN4808
(ANP7475-A)

Y POWER AMP (BR) ASSY

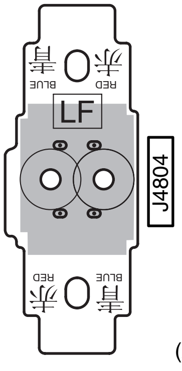

V CN4803
CN4809
YG-A3
CN4809
POWER AMP(BR)
AWX8320
J4803
BLACK
W368
W346
W347
W348
CN4811
CN4811
Q CN5005
CN4810
CN4810
(ANP7475-A)
X CN4804


CN4809
R4811
D4806
Q4103
R4810
C4812
D4805
Q4403
Q4303
D4807
R4809
CN4811
C4811
D4808
LF
CN4810
CN4809
CN4810
Q4103
Q4403
Q4303
(ANP7475-A)

Z POWER AMP (G) ASSY


4807
V 4807
YG-A3
黒
灰
BLK
J4803
J4804
GRAY
POWER AMP(G)
AWX8386
J4804
To
MAIN CAPACITOR
X 4808
4808

(ANP7475-A)


青
赤
BLUE
RED
LF
J4804
RED
BLUE
赤
青

(ANP7475-A)

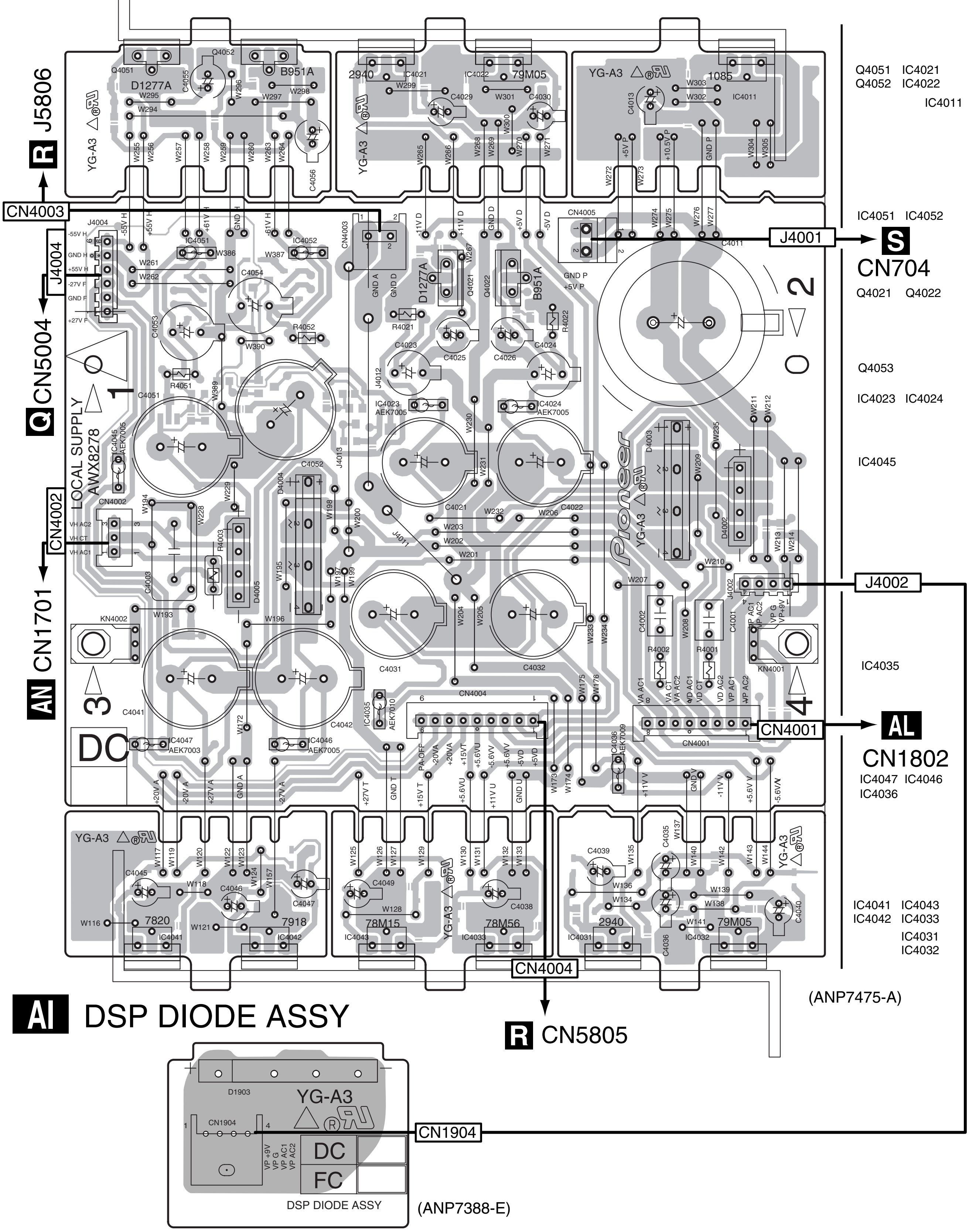
W Y Z **W Y Z**

4.19 LOCAL SUPPLY and DSP DIODE ASSYS

SIDE A

AA LOCAL SUPPLY ASSY

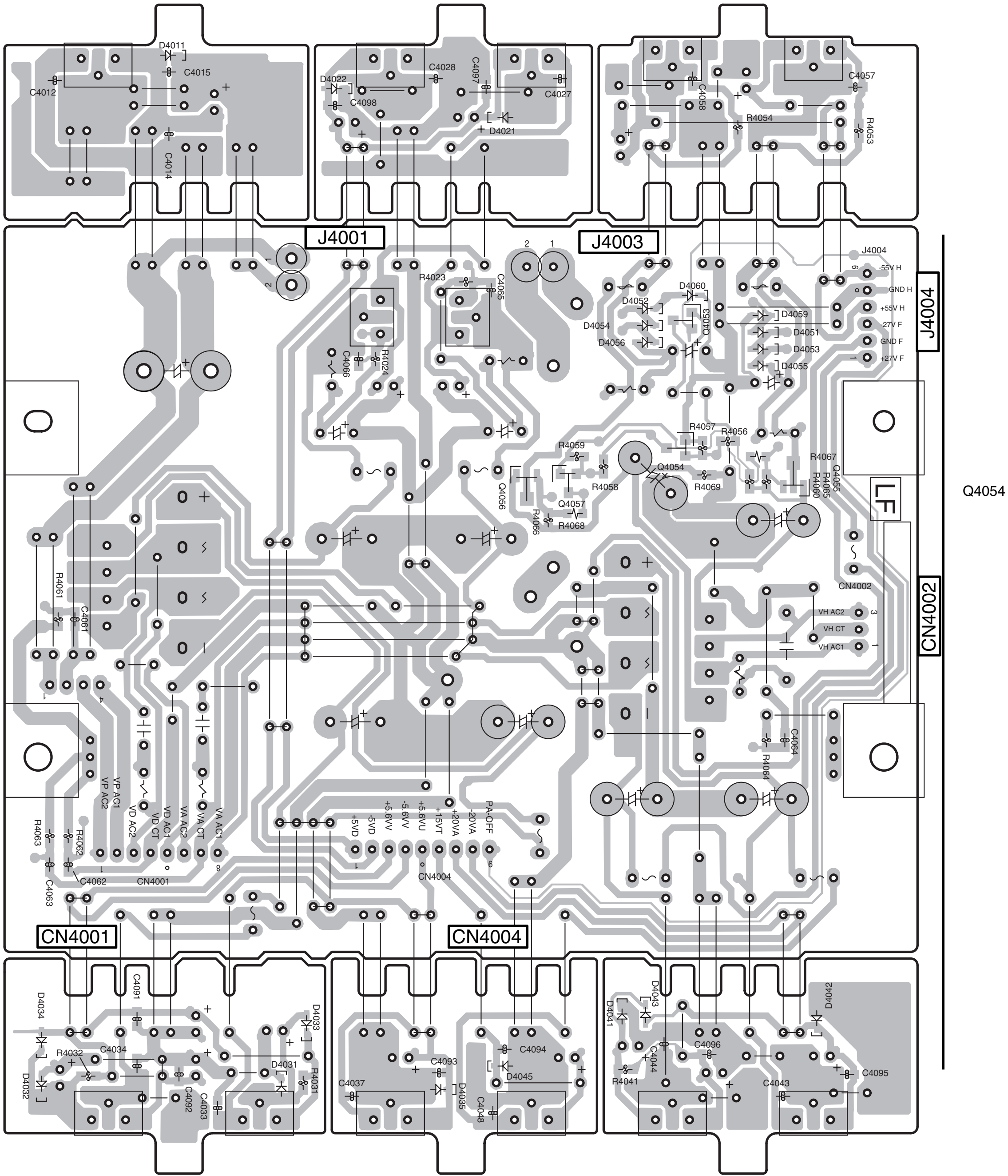
AI DSP DIODE ASSY


R J5806
CN4003
J4004
Q CN5004
CN4002
AN CN1701
LOCAL SUPPLY AWX8278
DC
Q4051
Q4052
D1277A
B951A
C4055
C4056
W294
W295
W296
W297
W298
W255
W256
W257
W258
W259
W260
W263
W264
YG-A3
2940
79M05
IC4021
IC4022
W299
W301
C4029
C4030
W265
W266
W268
W269
W270
W271
W300
1085
IC4011
C4013
W302
W303
W304
W305
W272
W273
+5V P
+10.5V P
GND P
-55V H
+55V H
+61V H
GND H
-61V H
IC4051
IC4052
W386
W387
W261
W262
C4054
C4053
R4052
W390
R4051
C4051
W389
C4052
D4004
D4005
R4003
W229
W228
W194
W193
W195
W196
W197
W198
W199
W200
KN4002
VH AC2
VH CT
VH AC1
C4003
C4041
C4042
C4047 AEK7003
C4046 AEK7005
C4045 AEK7005
W172
CN4003
GND A
GND D
J4013
J4012
+11V D
-11V D
GND D
+5V D
-5V D
D1277A
B951A
Q4021
Q4022
W267
R4021
R4022
C4023
C4024
C4025
C4026
IC4023 AEK7005
IC4024 AEK7005
W230
W231
C4021
C4022
W232
W206
W203
W202
W201
J4011
W204
W205
C4031
C4032
IC4035 AEK7010
CN4004
PA-OFF
-20VA
+20VA
+15VT
+5.6VU
-5.6VV
+5.6VV
-5VD
+5VD
W175
W176
W173
W174
CN4005
GND P
+5V P
W274
W275
W276
W277
C4011
J4001
S CN704
O 2
D4003
D4002
W211
W212
W235
W209
W213
W214
W210
W207
W208
W233
W234
Pioneer
YG-A3
C4002
C4001
R4002
R4001
J4002
VP AC1
VP AC2
VP G
VP+9V
KN4001
J4002
VA AC1
VA CT
VA AC2
VD AC1
VD CT
VD AC2
VP AC1
VP AC2
CN4001
C4036 AEK7009
AL CN1802
+20V A
-20V A
+27V A
GND A
-27V A
+27V T
GND T
+15V T
+5.6VU
+11V U
GND U
+11V V
GND V
-11V V
+5.6V V
-5.6VV
W117
W119
W120
W122
W123
W124
W157
W118
W116
W121
C4045
C4046
C4047
7820
7918
IC4041
IC4042
W125
W126
W127
W129
W130
W131
W132
W133
W128
C4049
C4038
78M15
78M56
IC4043
IC4033
C4039
C4035
W135
W137
W136
W134
W140
W142
W143
W144
W139
W138
W141
C4040
C4036
2940
79M05
IC4031
IC4032
CN4004
R CN5805
Q4051 IC4021
Q4052 IC4022
IC4011
IC4051 IC4052
Q4021 Q4022
Q4053
IC4023 IC4024
IC4045
IC4035
IC4047 IC4046
IC4036
IC4041 IC4043
IC4042 IC4033
IC4031
IC4032
(ANP7475-A)
D1903
YG-A3
CN1904
VP +9V
VP G
VP AC1
VP AC2
DC
FC
DSP DIODE ASSY
CN1904
(ANP7388-E)

AA AI

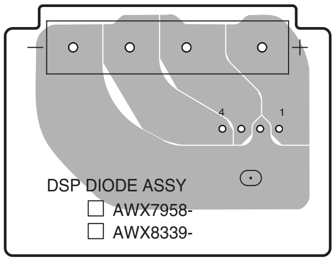
SIDE B

AA LOCAL SUPPLY ASSY


D4011
C4015
C4012
C4014
D4022
C4028
C4097
C4027
C4098
D4021
C4057
C4058
R4054
R4053
J4001
J4003
J4004
-55V H
GND H
+55V H
-27V F
GND F
+27V F
R4023
C4065
C4066
R4024
D4060
D4052
D4054
D4056
Q4053
D4059
D4051
D4053
D4055
R4057
R4056
R4059
Q4054
R4058
R4069
R4067
Q4055
R4065
R4060
Q4056
Q4057
R4066
R4068
LF
Q4054
CN4002
VH AC2
VH CT
VH AC1
R4061
C4061
C4064
R4064
VP AC1
VP AC2
VD AC2
VD AC1
VD CT
VA AC2
VA CT
VA AC1
+5VD
-5VD
+5.6VV
-5.6VV
+5.6VU
+15VT
+20VA
-20VA
PA-OFF
R4063
R4062
C4063
C4062
CN4001
CN4004
D4034
C4091
D4033
R4032
C4034
D4031
R4031
D4032
C4092
C4033
C4037
C4093
C4094
D4045
D4035
C4048
D4043
D4041
D4042
C4096
C4044
R4041
C4043
C4095

(ANP7475-A)

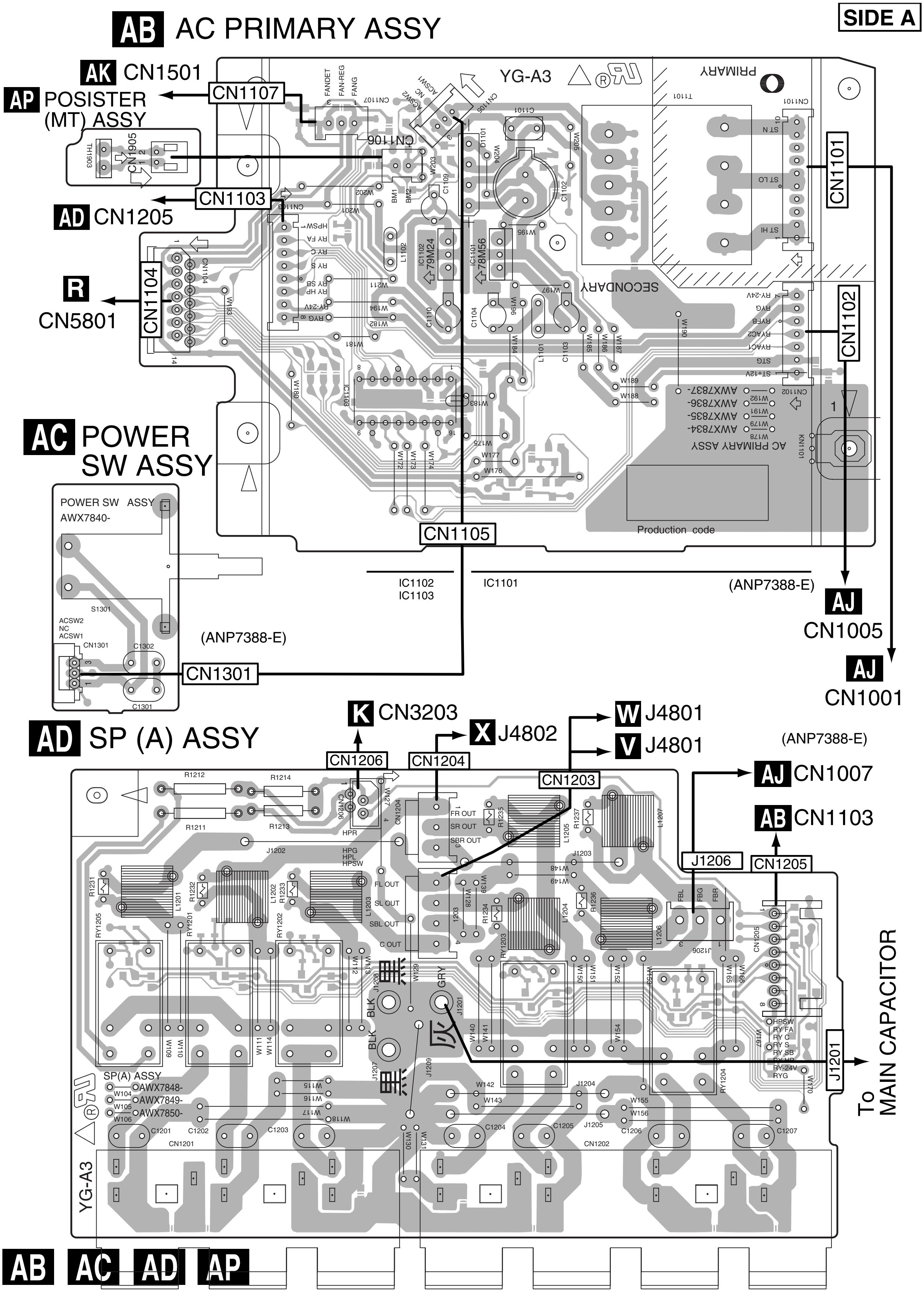
AI DSP DIODE ASSY


4
1
DSP DIODE ASSY
☐ AWX7958-
☐ AWX8339-

(ANP7388-E)

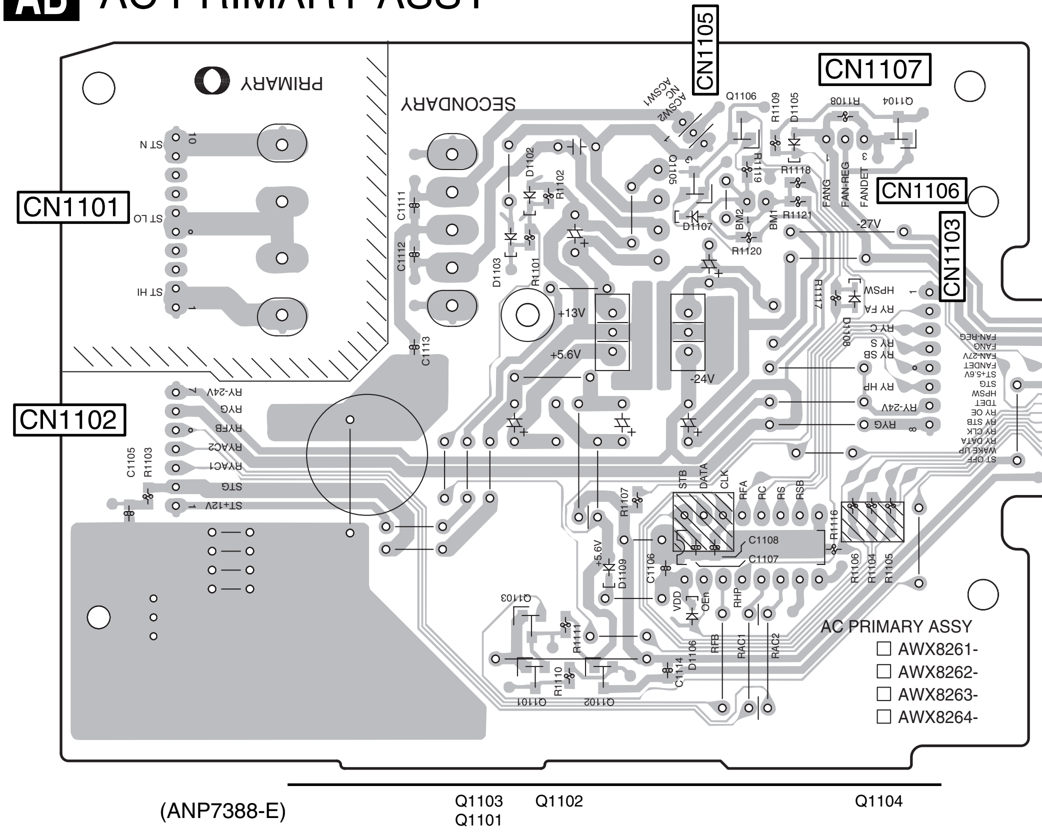
AA **AI**

4.20 AC PRIMARY, POWER SW, POSISTER(MT) and SP(A) ASSYS


SIDE A
AB AC PRIMARY ASSY
AK CN1501
AP POSISTER (MT) ASSY
CN1107
CN1905
CN1106
CN1103
AD CN1205
CN1104
R CN5801
CN1101
CN1102
YG-A3
PRIMARY
SECONDARY
AC PRIMARY ASSY
AWX7834-
AWX7835-
AWX7836-
AWX7837-
Production code
AC POWER SW ASSY
POWER SW ASSY
AWX7840-
S1301
ACSW2
NC
ACSW1
CN1301
C1302
C1301
CN1105
IC1102
IC1103
IC1101
(ANP7388-E)
AJ CN1005
AJ CN1001
AD SP (A) ASSY
K CN3203
X J4802
W J4801
V J4801
CN1206
CN1204
CN1203
AJ CN1007
AB CN1103
J1206
CN1205
J1201
To MAIN CAPACITOR
SP(A) ASSY
AWX7848-
AWX7849-
AWX7850-
CN1201
CN1202
AB AC AD AP

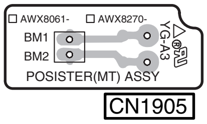
AB AC PRIMARY ASSY

SIDE B

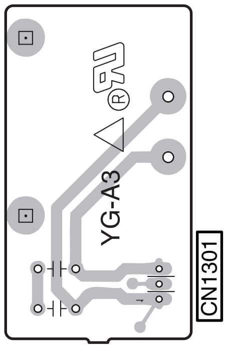

CN1105
CN1107
CN1101
CN1106
CN1103
CN1102
CN1104
PRIMARY
SECONDARY
ST N
ST LO
ST HI
RY-24V
RYG
RYFB
RYAC2
RYAC1
STG
ST+12V
ACSW1
ACSW2
Q1106
R1109
D1105
R1108
Q1104
Q1105
R1119
R1118
FANG
FAN-REG
FANDET
BM2
BM1
R1121
-27V
D1107
R1120
C1111
C1112
C1113
D1102
R1102
D1103
R1101
+13V
+5.6V
-24V
R1117
HPSW
RY FA
RY C
D1108
RY S
RY SB
RY HP
RY-24V
RYG
FAN-REG
FANG
FAN-27V
FANDET
STG
ST+5.6V
HPSW
TDET
RY STB
RY OE
RY CLK
RY DATA
WAKE UP
ST OFF
C1105
R1103
STB
DATA
CLK
RFA
RC
RS
RSB
R1107
C1108
C1107
R1116
+5.6V
D1109
C1106
R1106
R1104
R1105
VDD
OEn
RHP
Q1103
R1111
RFB
RAC1
RAC2
C1114
D1106
R1110
Q1101
Q1102
AC PRIMARY ASSY
☐ AWX8261-
☐ AWX8262-
☐ AWX8263-
☐ AWX8264-
Q1103
Q1101
Q1102
Q1104

(ANP7388-E)

AP POSISTER (MT) ASSY

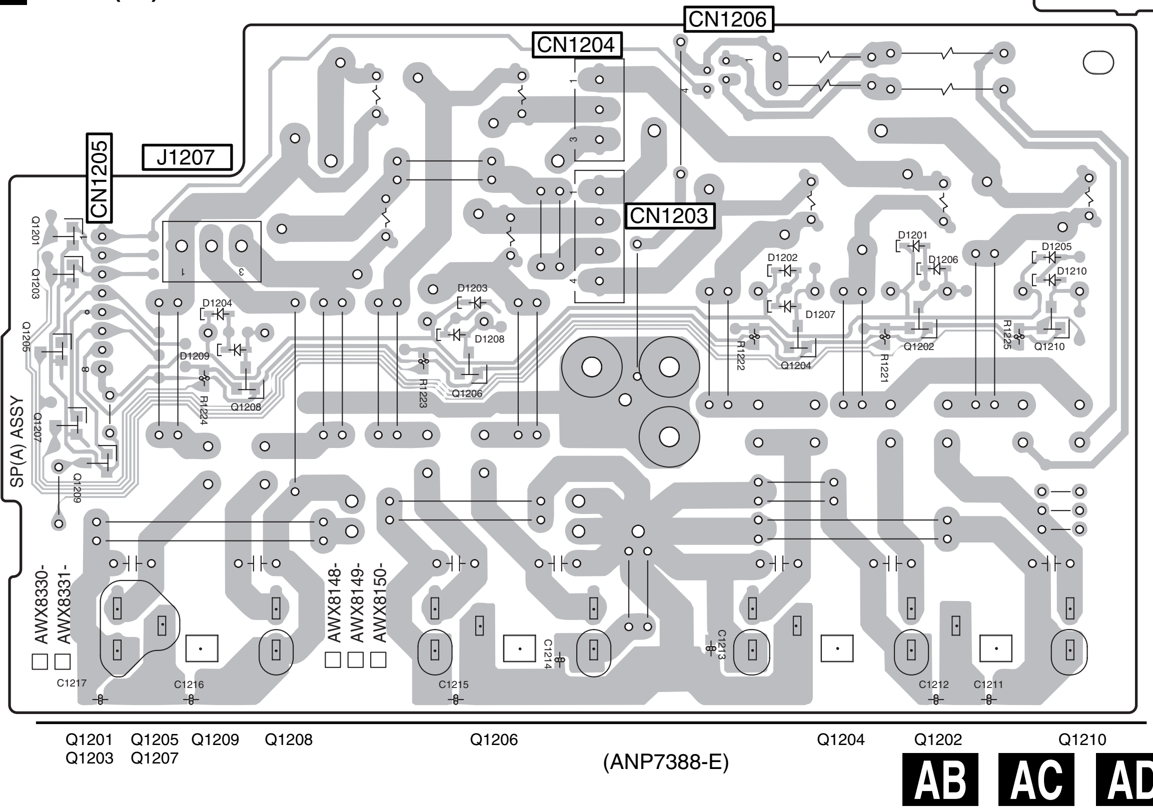

☐ AWX8061-
☐ AWX8270-
BM1
BM2
YG-A3
POSISTER(MT) ASSY
CN1905

AC POWER SW ASSY


YG-A3
CN1301

(ANP7388-E)

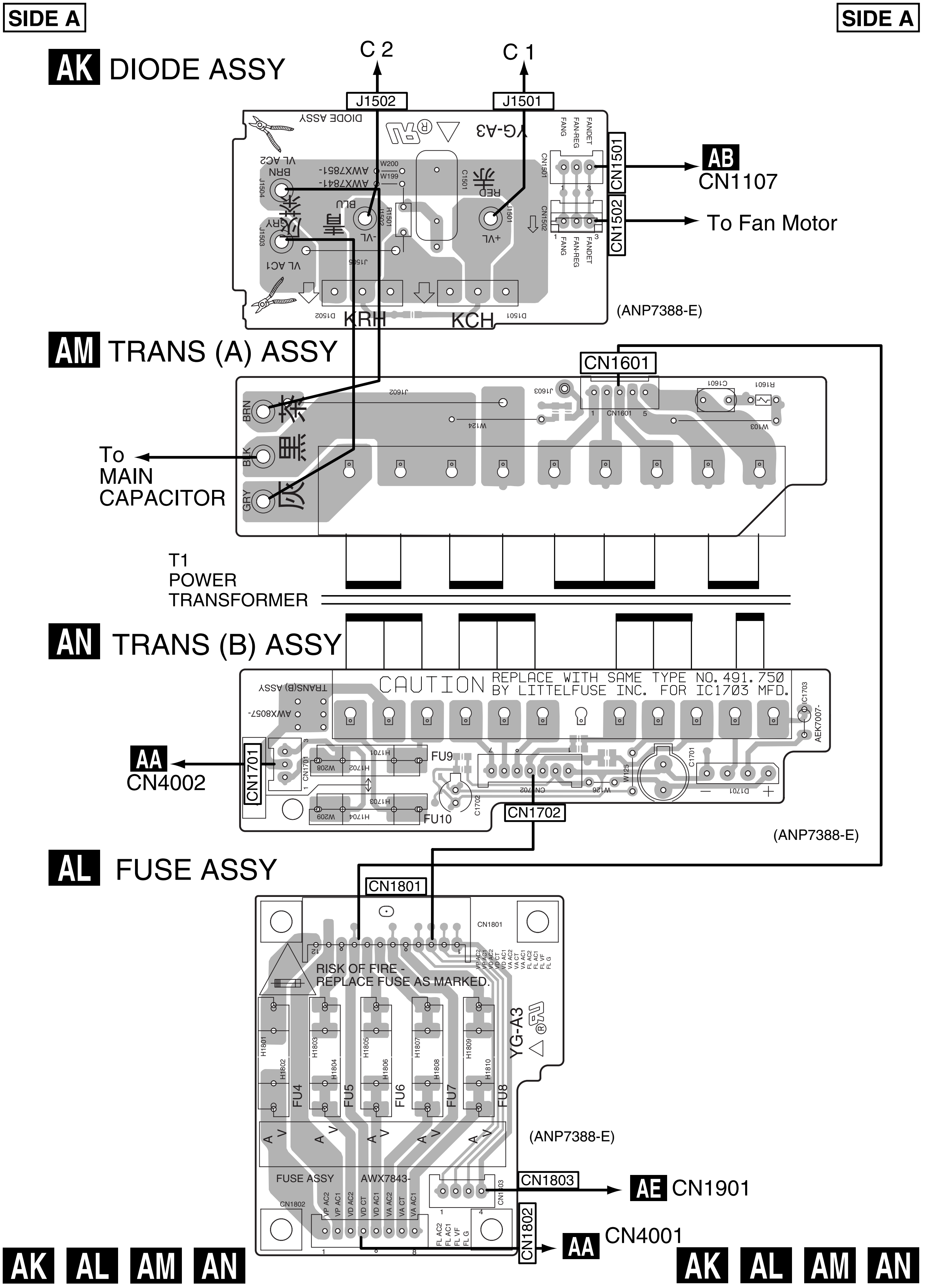
AD SP (A) ASSY


CN1206
CN1204
J1207
CN1205
CN1203
Q1201
Q1203
Q1205
D1204
D1209
R1224
Q1208
D1203
D1208
R1223
Q1206
D1202
D1207
R1222
Q1204
D1201
D1206
R1221
Q1202
D1205
D1210
R1225
Q1210
SP(A) ASSY
Q1207
Q1209
☐ AWX8330-
☐ AWX8331-
☐ AWX8148-
☐ AWX8149-
☐ AWX8150-
C1217
C1216
C1215
C1214
C1213
C1212
C1211
Q1201
Q1203
Q1205
Q1207
Q1209
Q1208
Q1206
Q1204
Q1202
Q1210

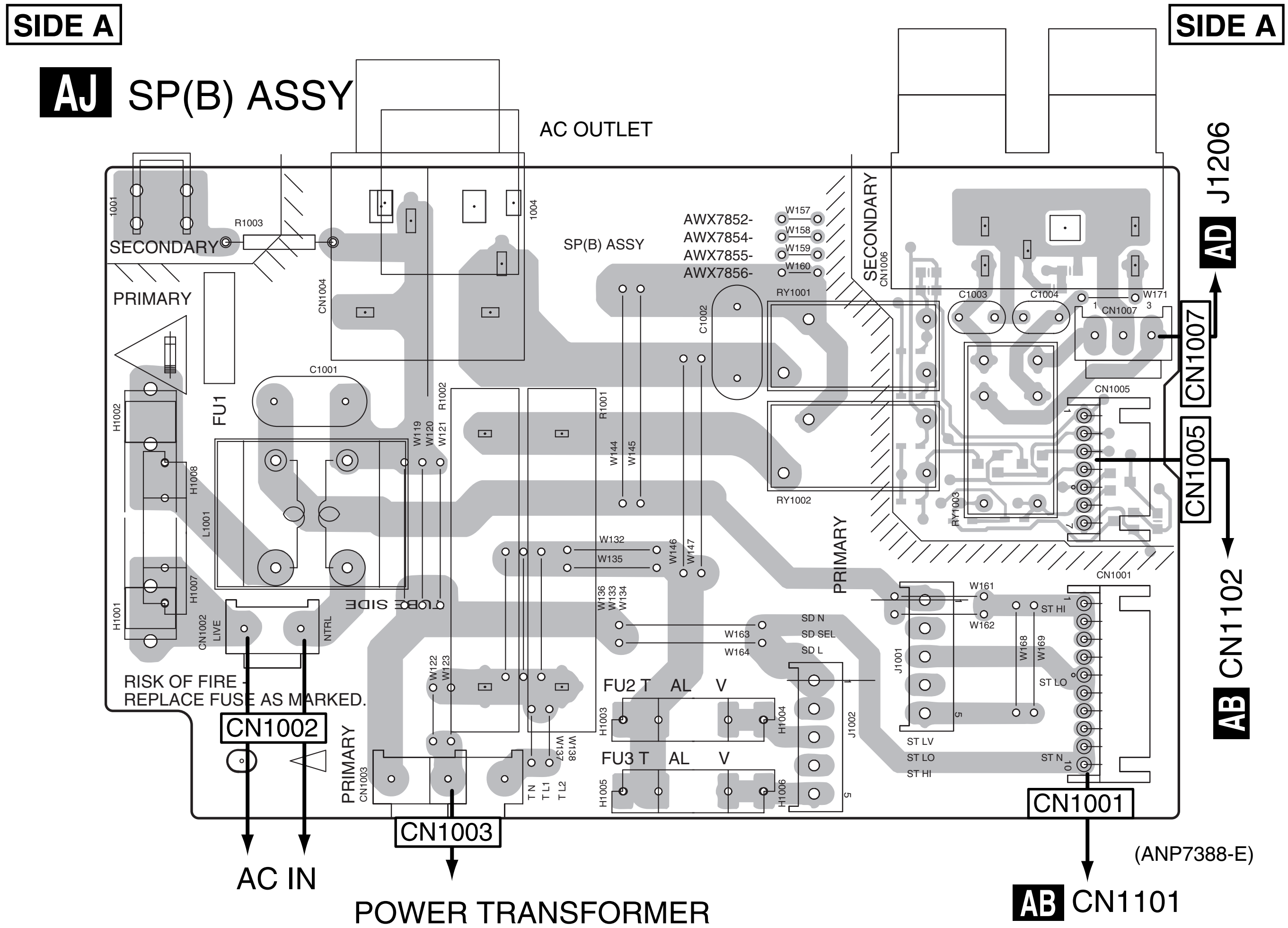
(ANP7388-E)

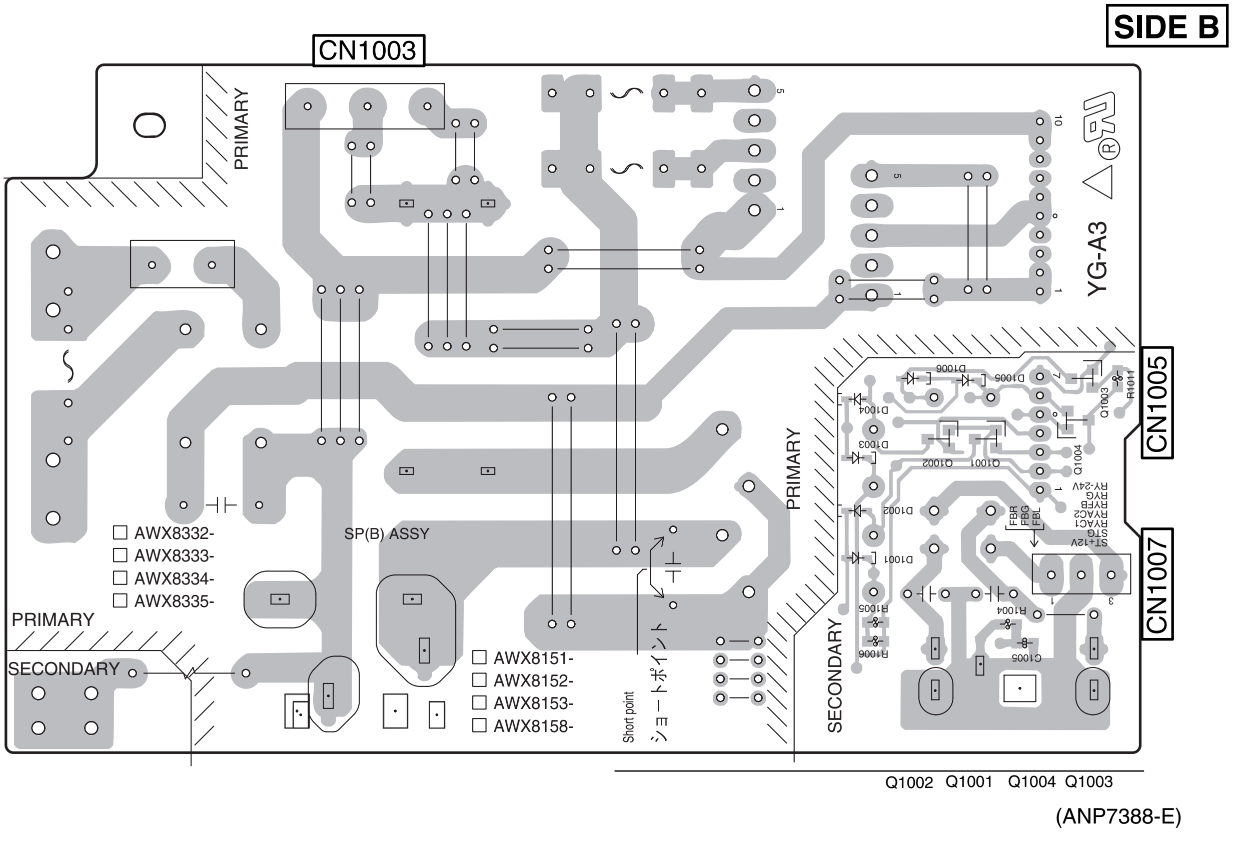
AB AC AD AP

4.21 TRANS(A), TRANS(B), DIODE and FUSE ASSYS


SIDE A
SIDE A
AK DIODE ASSY
C 2
C 1
J1502
J1501
DIODE ASSY
YG-A3
FANDET
FAN-REG
FANG
CN1501
CN1502
AB
CN1107
To Fan Motor
VL AC2
BRN
AWX7851-
AWX7841-
W200
W199
C1501
RED
BLU
R1501
R1502
-VL
+VL
J1504
J1503
J1501
J1505
GRY
VL AC1
D1502
D1501
KRH
KCH
(ANP7388-E)
AM TRANS (A) ASSY
CN1601
J1602
J1603
C1601
R1601
W124
W103
BRN
BLK
GRY
To MAIN CAPACITOR
T1 POWER TRANSFORMER
AN TRANS (B) ASSY
CAUTION REPLACE WITH SAME TYPE NO. 491.750 BY LITTELFUSE INC. FOR IC1703 MFD.
TRANS(B) ASSY
AWX8057-
IC1703
AEK7007-
AA
CN4002
CN1701
W208
W209
H1701
H1702
H1703
H1704
FU9
FU10
C1702
CN1702
W126
W125
C1701
D1701
(ANP7388-E)
AL FUSE ASSY
CN1801
VP AC2
VP AC1
VD AC2
VD CT
VD AC1
VA AC2
VA CT
VA AC1
FL AC2
FL AC1
FL VF
FL G
RISK OF FIRE - REPLACE FUSE AS MARKED.
YG-A3
H1801
H1802
H1803
H1804
H1805
H1806
H1807
H1808
H1809
H1810
FU4
FU5
FU6
FU7
FU8
(ANP7388-E)
FUSE ASSY
AWX7843-
CN1803
AE CN1901
CN1802
AA CN4001
AK AL AM AN
AK AL AM AN

4.22 SP(B) ASSY


SIDE A
SIDE A
AJ SP(B) ASSY
AC OUTLET
SP(B) ASSY
AWX7852-
AWX7854-
AWX7855-
AWX7856-
W157
W158
W159
W160
SECONDARY
PRIMARY
R1003
CN1004
FU1
C1001
C1002
RY1001
RY1002
RY1003
C1003
C1004
CN1006
CN1007
CN1005
CN1001
J1001
J1002
H1001
H1002
H1003
H1004
H1005
H1006
H1007
H1008
L1001
R1001
R1002
W119
W120
W121
W132
W135
W144
W145
W146
W147
W161
W162
W163
W164
W168
W169
W171
W122
W123
W136
W133
W134
W137
W138
SD N
SD SEL
SD L
ST HI
ST LO
ST LV
ST N
LIVE
NTRL
T N
T L1
T L2
FU2 T AL V
FU3 T AL V
RISK OF FIRE -
REPLACE FUSE AS MARKED.
CN1002
CN1003
CN1001
CN1007
CN1005
AD J1206
CN1102
AB CN1102
AC IN
POWER TRANSFORMER
(ANP7388-E)
AB CN1101

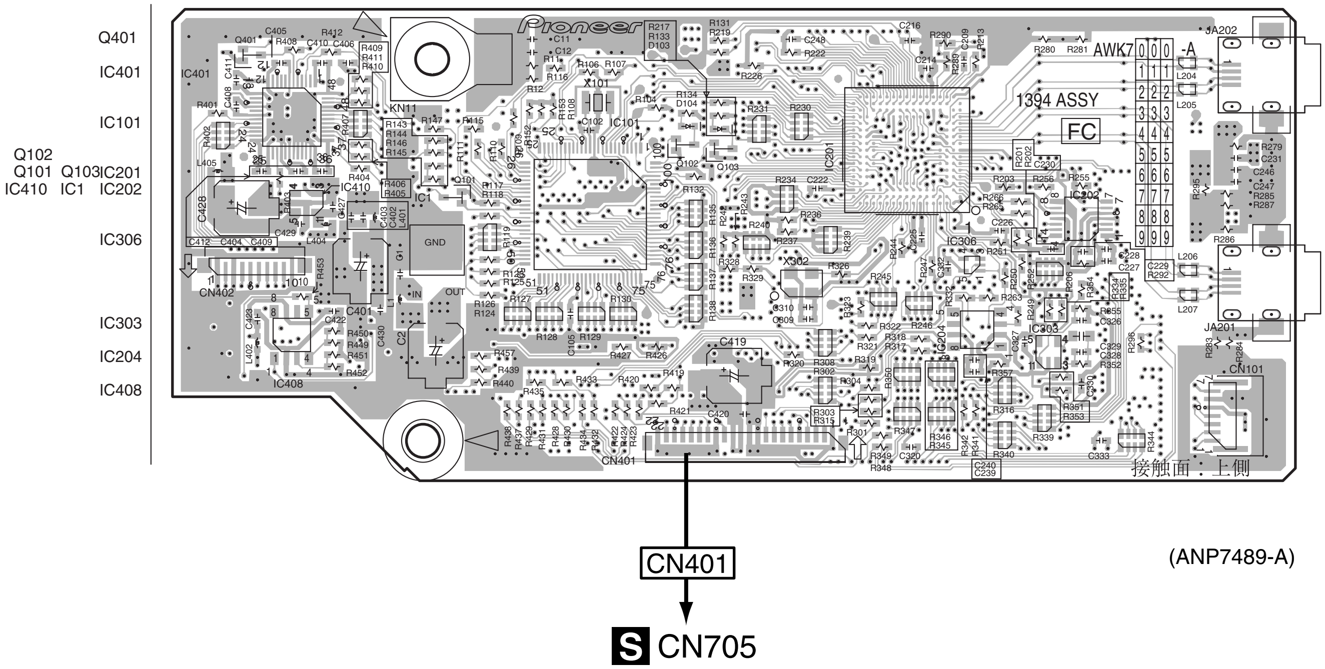

SIDE B
CN1003
PRIMARY
YG-A3
AWX8332-
AWX8333-
AWX8334-
AWX8335-
SP(B) ASSY
AWX8151-
AWX8152-
AWX8153-
AWX8158-
PRIMARY
SECONDARY
Short point
ショートポイント
SECONDARY
PRIMARY
D1001
D1002
D1003
D1004
D1005
D1006
Q1001
Q1002
Q1003
Q1004
R1004
R1005
R1006
R1011
C1005
RY-24V
RYG
RYFB
RYAC1
RYAC2
STG
ST+12V
FBR
FBG
FBL
CN1005
CN1007
Q1002 Q1001 Q1004 Q1003
(ANP7388-E)

4.23 1394 MODULE ASSY

SIDE A **SIDE B**

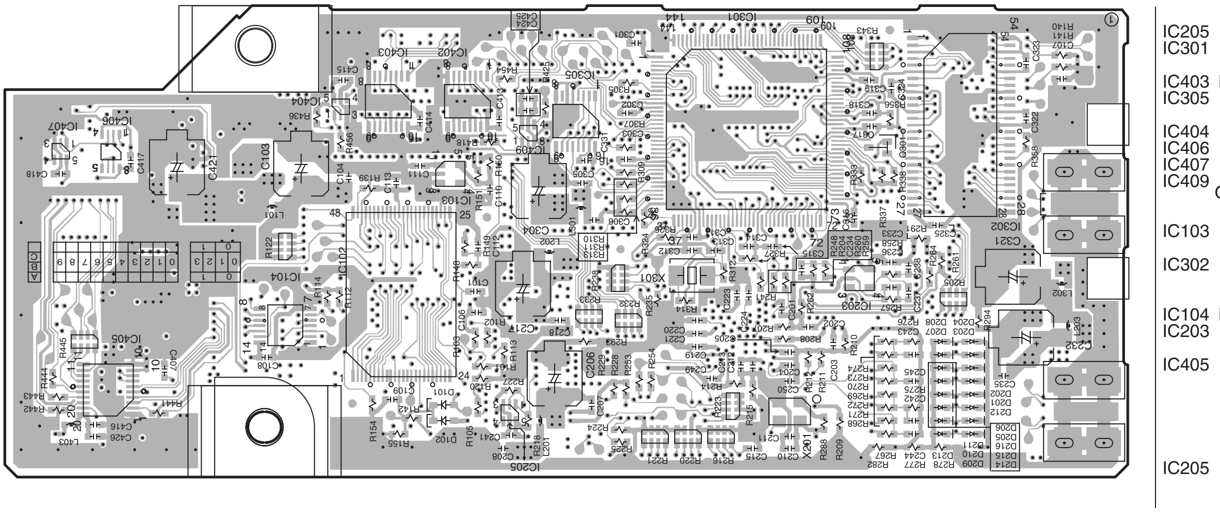
AO 1394 MODULE

SIDE A


Q401
IC401
IC101
Q102
Q101 Q103 IC201
IC410 IC1 IC202
IC306
IC303
IC204
IC408
Pioneer
1394 ASSY
FC
AWK7
-A
JA202
JA201
CN101
CN402
CN401
GND
KN11
X101
X302
接触面：上側
CN401
S CN705

(ANP7489-A)

SIDE B


IC205
IC301
IC403 IC402
IC305
IC404
IC406
IC407
IC409
Q301
IC103
IC302
IC104 IC102
IC203
IC405
IC205
IC301
IC403
IC402
IC305
IC104
IC102
IC302
IC203
IC405
X201
X301

(ANP7489-A)

AO AO

5. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*
  Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).
  560 Ω → 56×10^{1} → 561 .... RD1/4PU561J
  47k Ω → 47×10^{3} → 473 .... RD1/4PU473J
  0.5 Ω → R50 .... RN2HR50K
  1 Ω → 1R0 .... RS1P1R0K
  Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
  5.62k Ω → 562×10^{1} → 5621 .... RN1/4PC5621F

LIST OF ASSEMBLIES

Mark	No. Description	Part No.
	1..FM/AM TUNER Module	AXQ7237
NSP	1..VIDEO Assy	AWQ7020
	2..A/V I/O Assy	AWX8271
	2..COMPOSITE Assy	AWX7942
	2..COMPONENT Assy	AWX7953
	2..S-VIDEO Assy	AWX8159
	2..V-CONVERT Assy	AWX8160
NSP	1..A/D & CONTROL Assy	AWM7830
	2..INPUT SEL Assy	AWX7868
	2..MULTI JOG Assy	AWX7869
	2..VOL Assy	AWX8340
	2..MIC AMP Assy	AWX8341
	2..HEAD PHONE Assy	AWX8336
	2..MIC & OPT Assy	AWX7875
	2..VIDEO CONNECT Assy	AWX7876
	2..ANALOG IN&A/D Assy	AWX8273
	2..DISPLAY Assy	AWX8317
	2..FRONT A/V Assy	AWX8337
NSP	1..VR & MOTHER Assy	AWM7833
	2..VR&PRE OUT Assy	AWX8279
	2..MOTHER Assy	AWX8280
	1..DAC10 Assy	AWK7773
	1..DSP3 Assy	AWK7775
	1..DSP Assy	AWK7774
NSP	1..POWER AMP Assy	AWH7005
	2..POWER AMP(L) Assy	AWX8276
	2..POWER AMP(R) Assy	AWX8277
	2..POWER AMP(C) Assy	AWX8319
	2..POWER AMP(BR) Assy	AWX8320
	2..POWER AMP(G) Assy	AWX7886
	2..LOCAL SUPPLY Assy	AWX8278
	2..12V TRIGGER Assy	AWX8321
NSP	1..PS&SP Assy	AWK7769
	2..AC PRIMARY Assy	AWX8261
	2..TRANS(A) Assy	AWX8338
	2..POWER SW Assy	AWX7840
	2..DIODE Assy	AWX8412
	2..FUSE Assy	AWX7843
	2..POSISTER(L) Assy	AWX7844
	2..POSISTER(R) Assy	AWX7846
	2..FL SUPPLY Assy	AWX8269
	2..STANDBY Assy	AWX7901
	2..DSP DIODE Assy	AWX8339
	2..TRANS(B) Assy	AWX8057
	2..SP(A) Assy	AWX8330
	2..SP(B) Assy	AWX8332
	2..POSISTER(MT) Assy	AWX8270
	1..1394 Assy	AWK7794

A FM/AM TUNER MODULE

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC201	BA1451F
	IC202	LC72131MD
	Q201, Q204, Q205	2SC2412K
	Q202	DTA124ES
	Q203	DTC124EK
	D201	1SS133
	D202	MTZJ5.1C

COILS AND FILTERS

Mark	No. Description	Part No.
	L201 FM DET COIL	ATE7003
	F202 FM CERAMIC FILTER	ATF-107
	F201 FM CERAMIC FILTER	ATF-119
	F203 AM CERAMIC FILTER	ATF7026

CAPACITORS

Mark	No. Description	Part No.
	C206	CCSRCH100D50
	C212, C213, C226, C233-C235	CCSRCH101J50
	C240	CCSRCH101J50
	C231, C232	CCSRCH150J50
	C223	CEAT100M50
	C229	CEAT101M10
	C224	CEAT1R0M50
	C227	CEAT220M25
	C241	CEAT2R2M50
	C243	CEAT330M16
	C228	CEAT3R3M50
	C237	CEAT470M10
	C211	CEJQ1R0M50
	C210	CEJQ470M16
	C204, C238, C613	CKSRYB102K50
	C101, C102, C208, C220, C239	CKSRYB103K50
	C242, C604	CKSRYB103K50
	C216, C217, C225	CKSRYB153K50
	C201, C205, C209, C214, C230	CKSRYB223K50
	C236, C603	CKSRYB223K50
	C221	CKSRYB224K10
	C202, C222	CKSRYB473K16
	C215	CKSRYB681K50

RESISTORS

Mark	No. Description	Part No.
	R211	RD1/4PU221J
	R221	RD1/4PU222J
	R233	RD1/4PU391J
	R243	RS1/10S0R0J
	R103	RS1/10S331J
	R104	RS1/10S391J

Mark	No. Description	Part No.
	Other Resistors	RS1/16S###J

OTHERS

	CN201 13P FFCCONNECTOR	52044-1345
	BN201 2P ANTENNA TER.	AKA7002
	SHIELD CASE T	ANK7072
	SHIELD CASE B	ANK7073
	X201 CRYSTAL RES.(7.2MHz)	ASS1093

B A/V I/O ASSY

SEMICONDUCTORS

	IC2053	BA4558F-HT
	IC2052	M62429FP
	IC2002	TC9162AF
	IC2001	TC9164AF
	IC2051	UPC4570C
	Q2051	HN1C03F
	D2052, D2053	1SS355
	D2051	UDZS5.6B

CAPACITORS

	C2025, C2029, C2053, C2054	CCSRCH101J50
	C2063, C2064, C2077, C2078	CCSRCH101J50
	C2001- C2018, C2071	CCSRCH221J50
	C2067, C2068	CCSRCH221J50
	C2079, C2080	CEAT100M50
	C2075, C2076	CEAT1R0M50
	C2055, C2056	CEAT470M25
	C2061, C2065, C2066	CEJQ100M16
	C2051, C2052, C2059, C2060	CEJQ1R0M50
	C2072	CKSRYB102K50
	C2019-C2022, C2069, C2081	CKSRYB103K50
	C2023, C2024, C2027, C2028	CKSRYB473K25
	C2082, C2083	CKSRYB473K50

RESISTORS

	R2065	RD1/2LMF561J
⚠	R2067, R2068	RS1/16S102J
⚠	R2031, R2032, R2037, R2038	RS1/16S470J
⚠	R2059, R2060	RS1/16S470J
	Other Resistors	RS1/16S###J

OTHERS

	CN2002 JE CONNECTOR	17PS-JE
	2001 6P PIN JACK	AKB7073
	2002-2004 4P PIN JACK	AKB7075
	JA2051 2P PIN JACK	DKB1045
	CN2001 17P SOCKET	KP200TA17L
	2051 2P MINI JACK	VKN1034

C COMPOSITE ASSY

SEMICONDUCTORS

	IC2108, IC2109	BU4094BCF
	IC2106	NJM2296M
	IC2104	PDC084A
	IC2101, IC2107	TC74HC4051AFT
	IC2102, IC2103	TC74HC4053AFT
	IC2105	TK15420M
	Q2101-Q2103, Q2105-Q2108	2SC4081
	Q2104	UN5212
	D2101-D2103	1SS355

COILS AND FILTERS

Mark	No. Description	Part No.
	X2101 CRYSTAL RES.(14.3MHz)	ASS1056
	L2102, L2103	LAU100J
	L2101	LAU330J

CAPACITORS

	C2118	CCSRCH100D50
	C2123, C2132	CCSRCH101J50
	C2119	CCSRCH150J50
	C2120	CCSRCH180J50
	C2139, C2151-C2153, C2164	CCSRCH181J50
	C2121, C2122	CCSRCH240J50
	C2115, C2129, C2177-C2180	CEAT100M50
	C2101-C2106,C2114,C2124,C2125	CEAT101M10
	C2135, C2136, C2141, C2142	CEAT101M10
	C2165, C2166	CEAT101M10
	C2131	CEAT1R0M50
	C2107-C2113, C2137, C2138	CKSRYB103K50
	C2143, C2144, C2154-C2156	CKSRYB103K50
	C2159-C2161,C2167,C2168,C2170	CKSRYB103K50
	C2130	CKSRYB122K50
	C2116, C2126, C2127, C2140	CKSRYB473K25
	C2185, C2186 (1000/10)	ACH7194

RESISTORS

	Other Resistors	RS1/16S###J

OTHERS

	CN2101 JE CONNECTOR	19PS-JE
	2102-2105 2P PIN JACK	AKB7076
	JA2101 3P PIN JACK	AKB7109
	CN2102 12P SOCKET	KP200TA12L

D S-VIDEO ASSY

SEMICONDUCTORS

	IC2310	BU4094BCF
	IC2305	LA7213
	IC2308, IC2309	NJM2296M
	IC2306	TC74HC4051AFT
	IC2303, IC2304	TC74HC4053AFT
	IC2301, IC2302	TC74LVX4051FT
	IC2307	TK15420M
⚠	Q2303	2SA1576A
⚠	Q2302	2SC4081
	Q2314	HN1B04FU
	Q2301	UN5212
	D2304, D2305, D2307	1SS355

CAPACITORS

	C2352, C2353, C2376-C2381	CCSRCH181J50
	C2390-C2392	CEAT100M50
	C2301-C2306, C2339, C2340	CEAT101M10
	C2347, C2348, C2357, C2358	CEAT101M10
	C2361, C2362, C2385, C2386	CEAT101M10
	C2338	CEAT3R3M50
	C2313-C2318, C2325-C2327	CKSRYB103K50
	C2330-C2333, C2335, C2336	CKSRYB103K50
	C2341,C2342,C2349,C2350,C2356	CKSRYB103K50
	C2359, C2360, C2363, C2364	CKSRYB103K50
	C2382-C2384, C2387, C2389	CKSRYB103K50
	C2319-C2324, C2328, C2351	CKSRYB104K16
	C2373-C2375, C2393, C2394	CKSRYB104K16
	C2307-C2312	CKSRYB473K25

RESISTORS

Mark	No. Description	Part No.
	Other Resistors	RS1/16S###J

OTHERS

Mark	No. Description	Part No.
	CN2301 JE CONNECTOR	17PS-JE
	CN2302-CN2305 4PMINI DINSOCKET	AKP7023
	JA2301 4P MINI DIN SOCKET	AKP7049
	CN2306 8P SOCKET	KP200TA8L

E V-CONVERT ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC2862	BU4094BCF
	IC2852	MM1093NF
⚠	IC2863	NJM78M09FA
	IC2853	TA1270BF
	IC2859, IC2860	TC74LVX4053FT
	IC2851	TC90A49F
	IC2854-IC2858	TK15420M
	Q2851, Q2852	2SA1576A
⚠	Q2902	2SA1576A
	Q2853, Q2854	2SC4081
⚠	Q2901	2SC4081
	Q2904	2SC4081

COILS AND FILTERS

Mark	No. Description	Part No.
	L2856 CHIP FERRITE BEAD	ATL7002
	L2852-L2854, L2857	LAU100J
	L2855	LAU330J
	L2859	LCTA1R0J2520

CAPACITORS

Mark	No. Description	Part No.
	C2865, C2876, C2887	CCSRCH100D50
	C2885	CCSRCH101J50
	C2919, C2920	CCSRCH120J50
	C2867	CCSRCH181J50
	C2886	CCSRCH390J50
	C2881	CCSRCH391J50
	C2873	CCSRCH560J50
	C2879	CCSRCH6R0D50
	C2851,C2981,C2982,C2989-C2991	CEAT100M50
	C2855, C2860, C2862, C2868	CEAT101M10
	C2892, C2893, C2903, C2904	CEAT101M10
	C2909,C2910,C2917,C2918,C2928	CEAT101M10
	C2938,C2945,C2946,C2970,C2971	CEAT101M10
	C2853	CEAT1R0M50
	C2924, C2926	CEAT2R2M50
	C2884, C2985	CEAT470M10
	C2874, C2877, C2880	CEAT4R7M50
	C2882	CKSRYB102K50
	C2854,C2856,C2857,C2859,C2861	CKSRYB103K50
	C2863,C2866,C2869-C2872,C2875	CKSRYB103K50
	C2878, C2883, C2890, C2891	CKSRYB103K50
	C2894-C2897, C2901, C2902	CKSRYB103K50
	C2907, C2908, C2911, C2912	CKSRYB103K50
	C2915,C2916,C2923,C2929,C2937	CKSRYB103K50
	C2943,C2944,C2967,C2978,C2979	CKSRYB103K50
	C2852,C2925,C2930-C2935,C2966	CKSRYB104K16
	C2983, C2984, C2986	CKSRYB104K16
	C2994-C2996	CKSRYB105K6R3
	C2864	CKSRYB122K50
	C2921	CKSRYB222K50
	C2927	CKSRYB223K50
	C2922	CKSRYB224K10
	C2858	CKSRYB474K10
	C2969	CKSRYB561K50

RESISTORS

Mark	No. Description	Part No.
	Other Resistors	RS1/16S###J

OTHERS

Mark	No. Description	Part No.
	CN2851 JE CONNECTOR	09PS-JE
	X2851, X2853 CRYS, RES.(3.58MHz)	ASS1091
	X2852 CRYSTAL RES.(4.43MHz)	ASS1092
	X2854 Ceramic RES.(503kHz)	ASS7036
	CN2852 18P SOCKET	KP200TA18L

F COMPONENT ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC2507	BU4094BCF
	IC2505, IC2506	OPA2652U
	IC2509	SP232AEP
	IC2504	TC74HC4053AFT
	IC2501, IC2502	TC74LVX4052FT
	IC2503	TC74LVX4053FT
⚠	Q2502	2SA1576A
⚠	Q2501	2SC4081
	Q2503	2SC4081
	D2501-D2503	1SS355

COILS AND FILTERS

Mark	No. Description	Part No.
	L2501	LAU1R0J

CAPACITORS

Mark	No. Description	Part No.
	C2541, C2542	CEAT100M50
	C2524, C2525, C2532, C2533	CEAT101M10
	C2537, C2538, C2567	CEAT101M10
	C2563-C2565, C2568	CEAT1R0M50
	C2510-C2517, C2522, C2523	CKSRYB103K50
	C2530, C2531, C2535, C2536	CKSRYB103K50
	C2557,C2558,C2569,C2571-C2579	CKSRYB103K50
	C2581	CKSRYB103K50
	C2566	CKSRYB104K25
	C2582	CKSRYB331K50

RESISTORS

Mark	No. Description	Part No.
	Other Resistors	RS1/16S###J

OTHERS

Mark	No. Description	Part No.
	CN2501 JE CONNECTOR	19PS-JE
	JA2502 6P PIN JACK	AKB7127
	JA2501 6P PIN JACK	AKB7141
	JA2504 MULTI JACK	AKN7014
	CN2505 9P D-SUB SOCKET	AKP1213
	CN2502 10P SOCKET	KP200TA10L
	2501 SCREW TERMINAL	VNE1948

G VIDEO CONNECT ASSY

OTHERS

Mark	No. Description	Part No.
	CN3303 10P PLUG	KM200TA10
	CN3301 12P PLUG	KM200TA12
	CN3304 18P PLUG	KM200TA18
	CN3302 8P PLUG	KM200TA8

H MIC AMP ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC3201	M5220FP

Mark	No. Description	Part No.
	Q3204	HN1C01FU
	Q3202	RN4903
	D3201	1SS355
	D3202	UDZS5.6B

CAPACITORS

	C3211, C3220, C3226	CCSRCH101J50
	C3214	CCSRCH330J50
	C3210, C3218, C3221, C3224, C3227	CEAL100M16
	C3231, C3232	CEAL101M10
	C3206	CEAL220M16
	C3212, C3215	CEAL220M35
	C3223, C3229, C3230	CEAL330M25
	C3250, C3253, C3303	CKSRYB102K50
	C3213, C3238, C3252, C3302	CKSRYB103K50
	C3205, C3228	CKSRYB104K16

RESISTORS

	Other Resistors	RS1/16S###J

OTHERS

	CN3207	52044-1145
	CN3205	S4B-PH-K
	KN3202	VNF1084

I MIC & OPT ASSY

COILS AND FILTERS

	L3202 (CHIP INDCTER)	QTL1013
	L3203, L3204 (CHIP INDCTER)	VTL1075

CAPACITORS

	C3203	CEAL470M10
	C3201	CKSRYB103K50
	C3202	CKSRYB104K16

RESISTORS

	Other Resistors	RS1/16S###J

OTHERS

	CN3202 KR CONNECTOR	B4B-PH-K
	CN3201 KR CONNECTOR	B5B-PH-K
	JA3201 OPTICAL LINK IN	GP1FA502RZ
	JA3202 REMO CON. JACK	RKN1004

J FRONT A/V ASSY

CAPACITORS

	C3236	CKSRYB102K50
	C3235, C3335	CKSRYB103K50
	C3234, C3245	CKSRYB104K16
	C3233	CKSRYB473K50
	C3216, c3217	CCSRCH221J50

RESISTORS

	Other Resistors	RS1/16S###J

OTHERS

	JA3204 FRONT PIN JACK	AKX7014
	CN3204 KR CONNECTOR	B8B-PH-K

K HEAD PHONE ASSY

CAPACITORS

	C3209	CKSRYB104K16
	C3207, C3208	CKSRYB392K50

RESISTORS

Mark	No. Description	Part No.
	Other Resistors	RS1/16S###J

OTHERS

	CN3203 4P FFC CONNECTOR	52045-0445
	JA3203 HEADPHONE JACK	RKB1014
	KN3201 EARTH METAL FITT.	VNF1084

L ANALOG IN & A/D ASSY

SEMICONDUCTORS

	IC3421, IC3441, IC3461, IC3481	AK5385VS
	IC3901	BU4052BCF
	IC3423	M5220P
	IC3501, IC3502, IC3601, IC3602	NJM2068D
	IC3701, IC3702, IC3801, IC3802	NJM2068D
⚠	IC3402	PQ3DZ13
	IC3401, IC3422	TC9163AF
	IC3424, IC3462	UPC4570C
	IC3903	TC7SH04FU
	Q3501, Q3601, Q3701, Q3801	HN1C03F
	Q3401	RN4903
	D3501, D3502, D3601, D3602	DAN202K
	D3701, D3702, D3801, D3802	DAN202K
	D3503, D3504, D3603, D3604	DAP202K
	D3703, D3704, D3803, D3804	DAP202K
	D3901, D3902	UDZS6.2B

COILS AND FILTERS

	L3401, L3402, L3421, L3422	ATL7002
	L3441, L3442, L3461, L3462	ATL7002
	L3481, L3482 (CHIP BEAD)	ATL7002
	L3601	QTL1013
	L3423, L3443, L3463, L3483 (CHIP SOLID INDUCTOR)	QTL1013

CAPACITORS

	C3411-C3414, C3435, C3436	ACH7207
	C3473, C3474 (470uF/25V)	ACH7207
	C3405, C3428, C3503, C3504	CCSRCH101J50
	C3563, C3564	CCSRCH101J50
	C3567, C3568, C3603, C3604	CCSRCH101J50
	C3703, C3704, C3755, C3756	CCSRCH101J50
	C3759, C3760, C3803, C3804	CCSRCH101J50
	C3549, C3550	CCSRCH181J50
	C3531- C3546, C3751,C3752	CCSRCH221J50
	C3553, C3554	CCSRCH331J50
	C3401	CEHAZL100M50
	C3547,C3548,C3559,C3560	CEAT100M50
	C3951, C3952	CEAT100M50
	C3515, C3516, C3615, C3616	CEAHAZL101M10
	C3715, C3716, C3815, C3816	CEAHAZL101M10
	C3429, C3430	CEAT101M25
	C3551, C3552	CEAT470M16
	C3402	CEHAZL101M10
	C3421, C3422, C3441, C3442	CENHAZL100M50
	C3461, C3462, C3481, C3482	CENHAZL100M50
	C3509-C3512, C3523, C3524	ACH7196
	C3561, C3562, C3609-C3612	ACH7196
	C3709- C3712 (10uF/50)	ACH7196
	C3723, C3724	CENA100M50
	C3753, C3754 (10uF/50)	ACH7196
	C3623, C3624 (10uF/50)	ACH7196
	C3757, C3758 (47uF/35)	ACH7211
	C3809-C3812 (10uF/50)	ACH7196

Mark	No. Description	Part No.
	C3823, C3824 (10uF/50)	ACH7196
	C3565, C3566 (47uF/35)	ACH7211
	C3501, C3502, C3601, C3602	ACH7198
	C3801, C3802 (47uF/25)	ACH7198
	C3701, C3702 (47uF/25)	ACH7198
	C3427, C3447, C3467, C3487	CKSRYB102K50
	C3505-C3508, C3513, C3514	CKSRYB103K50
	C3576, C3578, C3580, C3582	CKSRYB103K50
	C3605-C3608, C3613, C3614	CKSRYB103K50
	C3705-C3708, C3713, C3714	CKSRYB103K50
	C3805-C3808, C3813, C3814	CKSRYB103K50
	C3960	CKSRYB103K50
	C3423, C3424, C3443, C3444	CKSRYB104K16
	C3463, C3464, C3483, C3484	CKSRYB104K16
	C3517,C3518,C3521,C3522,C3575	CKSRYB104K16
	C3577,C3579,C3581,C3617,C3618	CKSRYB104K16
	C3621, C3622, C3717, C3718	CKSRYB104K16
	C3721, C3722, C3817, C3818	CKSRYB104K16
	C3821, C3822	CKSRYB104K16
	C3961	CKSRYB105K6R3
	C3519, C3619	CKSRYB224K10
	C3719, C3819	CKSRYB224K10
	C3425, C3445, C3465, C3485	CKSRYB471K50
	C3403, C3404, C3431, C3432	CKSRYB473K50
	C3953, C3954	CKSRYB473K50
	C3557, C3558	CQMA242J50
	C3555, C3556	CQMA822J50

RESISTORS

⚠	R3411-R3414, R3471, R3472	RD1/4MUF470J
	R3525-R3528, R3625-R3628	RS1/16S1002F
	R3725-R3728, R3825-R3828	RS1/16S1002F
	R3765, R3766	RS1/16S1201F
	R3589, R3590	RS1/16S1801F
	R3509, R3510, R3609, R3610	RS1/16S2701F
	R3709, R3710, R3809, R3810	RS1/16S2701F
	R3587, R3588, R3763, R3764	RS1/16S2702F
	R3511-R3516, R3611-R3616	RS1/16S3901F
	R3711-R3716, R3811-R3816	RS1/16S3901F
⚠	R3407, R3408, R3431-R3436	RS1/16S470J
⚠	R3951, R3952	RS1/16S472J
	R3593, R3594, R3693, R3694	RS1/16S5600F
	R3793, R3794, R3893, R3894	RS1/16S5600F
	R3501, R3502, R3601, R3602	RS1/16S6801F
	R3701, R3702, R3801, R3802	RS1/16S6801F
	Other Resistors	RS1/16S###J

OTHERS

	3401,3501,3503,3504 4P PINJACK	AKB7075
	CN3402 17P SOCKET	KP200TA17L
	CN3401 20P SOCKET	KP200TA20L
	CN3403 30P B TO B CONNECTOR	VKN1395
	J3904 Tie Wire	ADB7016
	J3901,J3905 Tie Wire	ADB7017

M DISPLAY ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC3002	BU2092F
	IC3001	PD5903A
	IC3061	TC74HC4053AFT
	Q3052	2SA1036K
	Q3061	2SA1576A
	Q3053, Q3054	2SD2114K
	Q3002, Q3062	RN1903
	Q3063	RN2903
	Q3001, Q3003, Q3051	UN5212
	D3061-D3067	1SS355
	D3030, D3031	DAN202K
	D3027	NSPB510-2283
	D3026, D3028, D3029	SLI-343DUW
	D3001,D3003,D3005,D3007,D3009	SLI-343URW
	D3011,D3013,D3015-D3018,D3025	SLI-343URW
	D3019	TLGE68TG
	D3033	UDZS6.2B

COILS AND FILTERS

	X3001 CERAMIC RES.(4.19MHz)	ASS7042
	L3001 CHIP BEAD	ATL7002

SWITCHES AND RELAYS

	S3081-S3098	ASG7024

CAPACITORS

	C3035, C3071, C3075, C3076	CCSRCH101J50
	C3053	CEAT470M50
	C3031, C3061, C3072, C3074	CEJQ101M6R3
	C3022	CEJQ4R7M50
	C3081-C3084	CKSRYB102K50
	C3051, C3062	CKSRYB103K50
	C3027,C3034,C3052,C3073,C3079	CKSRYB104K16
	C3063	CKSRYB153K50
	C3020, C3021	CKSRYB473K50

RESISTORS

	R3060	RD1/2LMF103J
⚠	R3050	RD1/4MUF220J
	Other Resistors	RS1/16S###J

OTHERS

	3001,3003,3004 4P CABLE HOL.	51048-0400
	3002 5P CABLE HOL.	51048-0500
	CN3001 17P FFC CON.	52492-1720
	V3001 FL TUBE	AAV7081
	J3005 EARTHLEAD WIRE	DE005WE0
	CN3002 3P FFC CONNECTOR	HLEM3S-1
	IC3062 REMOE RECEIVER	NJL64H400A

N INPUT SEL ASSY

SWITCHES AND RELAYS

	S3103	ASX7038

CAPACITORS

	C3110, C3111	CKSRYB103K50

RESISTORS

	R3109, R3110	RS1/16S473J

OTHERS

	3104 4P CABLE HOLDER	51048-0400

O MULTI JOG ASSY

SWITCHES AND RELAYS

	S3101	ASX7039

Mark	No. Description	Part No.

CAPACITORS

	C3105, C3106	CKSRYB103K50

RESISTORS

	R3105, R3106	RS1/16S473J

OTHERS

	3102 5P CABLE HOLDER	51048-0500

P VOL ASSY

SWITCHES AND RELAYS

	S3102	ASX7037

CAPACITORS

	C3108, C3109	CKSRYB103K50

RESISTORS

	R3191	RS1/16S0R0J
	R3107, R3108	RS1/16S103J

OTHERS

	3103 4P CABLE HOLDER	51048-0400

Q VR OUT & PRE OUT ASSY

SEMICONDUCTORS

	IC5084	BU4052BCF
	IC5023, IC5063, IC5181, IC5182	NJM2068D
⚠	IC5002	NJM78M15FA
⚠	IC5003	NJM79M15FA
	IC5022, IC5042, IC5062, IC5082	OPA2134PA
	IC5001	TC9274N-016
	IC5021, IC5041, IC5061, IC5081	TC94A17F
	IC5043, IC5083	UPC4570C
	Q5101,Q5102,Q5201,Q5202,Q5204	HN1C03F
	Q5301, Q5302, Q5401, Q5402	HN1C03F
	D5001-D5004	1SS355
	D5085-D5090	DA204K
	D5083, D5084	UDZS6.2B

CAPACITORS

	C5007, C5008, C5021, C5022	ACH7207
	C5033, C5034, C5041, C5042	ACH7207
	C5053, C5054, C5061, C5062	ACH7207
	C5081, C5082 (470uF/25v)	ACH7207
	C5013,C5024,C5044,C5064,C5084	CCSRCH101J50
	C5123, C5124, C5223, C5224	CCSRCH101J50
	C5257, C5258, C5261, C5262	CCSRCH101J50
	C5323, C5324, C5423, C5424	CCSRCH101J50
	C5457, C5458, C5461, C5462	CCSRCH101J50
	C5153, C5154, C5181, C5182	CCSRCH220J50
	C5129,C5130,C5229-C5230,C5232	CCSRCH221J50
	C5253, C5254, C5329,C5330,C59O1	CCSRCH221J50
	C5429, C5430, C5453, C5454,C5902	CCSRCH221J50
	C5189, C5190, C5353, C5354	CCSRCH220J50
	C5911, C5912, C5921, C5922	CCSRCH330J50
	C5931, C5932, C5941, C5942	CCSRCH330J50
	C5003-C5006	CEHAZL100M50
	C5001, C5002	CEAT1R0M50
	C5011, C5012	CEAT470M25
	C5095, C5096	CEHAZL470M25
	C5251, C5252 (47uF/25)	ACH7198
	C5451, C5452 (47uF/25)	ACH7198
	C5255, C5256 (10uF/50)	ACH7196
	C5259, C5260 (47uF/35)	ACH7211
	C5455, C5456, C5459, C5460	ACH7211
	C5125-C5128 (47uF/25)	ACH7198
	C5183, C5184	CENA470M25
	C5325-C5328	CENA470M25
	C5151, C5152, C5155, C5156	ACH7198
	C5183, C5184 (47uF/25)	ACH7198
	C5225- C5228, C5351, C5352	ACH7198
	C5355, C356 (47uF/25)	ACH7198
	C5425-C5428 (47uF/25)	ACH7198
	C5121, C5122 (4.7uF/50)	ACH7199
	C5221, C5222 (4.7uF/50)	ACH7199
	C5321, C5322 (4.7uF/50)	ACH7199
	C5421, C5422 (4.7uF/50)	ACH7199
	C5015-C5017, C5031, C5032	CKSRYB103K50
	C5051, C5052, C5071, C5072	CKSRYB103K50
	C5091, C5092, C5185-C5188	CKSRYB103K50
	C5014	CKSRYB104K16
	C5131-C5134, C5233-C5236	CKSRYB104K25
	C5242, C5244	CKSRYB104K25
	C5331-C5334	CKSRYB104K25
	C5009, C5010, C5025, C5026	CKSRYB473K50
	C5029, C5030, C5045, C5046	CKSRYB473K50
	C5049, C5050, C5065, C5066	CKSRYB473K50
	C5069, C5070, C5085, C5086	CKSRYB473K50
	C5089, C5090, C5097, C5098	CKSRYB473K50
	C5431-C5434	CKSRYB104K25

RESISTORS

⚠	R5007, R5008, R5021, R5022	RD1/4MUF470J
⚠	R5029, R5030, R5041, R5042	RD1/4MUF470J
⚠	R5049, R5050, R5061, R5062	RD1/4MUF470J
⚠	R5081, R5082	RD1/4MUF470J
⚠	R5001, R5002	RD1/4MUF4R7J
	R5267, R5268, R5467, R5468	RS1/16S1201F
	R5265, R5266, R5465, R5466	RS1/16S2702F
⚠	R5005, R5006	RS1/16S470J
⚠	R5091, R5092	RS1/16S472J
	Other Resistors	RS1/16S###J

OTHERS

	5002,5021 4P PIN JACK	AKB7075
	JA5042 2P PIN JACK	AKB7144
	JA5001 4P PIN JACK	AKB7145
	CN5005 8P CONNECTOR	B08B-XASK-1
	CN5006 14P CONNECTOR	B14B-XASK-1
	CN5002 9P SOCKET	KP200TA9L
	CN5004 6P CONNECTOR	S06B-XASK-1
	JA5041 1P PIN JACK	VKB1074
	CN5003 24P B TO B CON.	VKN1392
	CN5001 30P B TO B CON.	VKN1395
	J5013, J5017 Tie Wire	ADB7016

R MOTHER ASSY

SEMICONDUCTORS

	IC5802	CAT24WC64JI
⚠	IC5806, IC5808	NJM78M15FA
⚠	IC5807, IC5809	NJM79M15FA
	IC5801	PD5902A8
	IC5810	PST9242NR
	IC5803, IC5804	TC74HCT244AF

Mark	No. Description	Part No.
	IC5811, IC5813	TC7S08FU
	IC5812	TC7W126FU
	IC5815	PQ12DZ11
⚠	Q5805	2SC5174P
⚠	Q5816	2SK2103
⚠	Q5815	IRF7416
	Q5801, Q5823	RN1903
	Q5806	RN4903
	Q5808, Q5809, Q5818	UN5112
	Q5810	UN511L
	Q5821, Q5822	2SB1189
	Q5824	2SA1037K
	Q5807, Q5817	UN5212
	D5803-D5806, D5814, D5815	1SS355
	D5821-D5823, D5812	1SS355
	D5819, D5820, D5825	DAN202K
	D5817	DAP202K
	D5801	UDZ511B
	D5826	UDZS5.1B

COILS AND FILTERS

Mark	No. Description	Part No.
	L5801, L5802, L5803, L5806 (CHIP)	ATL7002
	L5804	LCTAW1R0J2520
	L5805, L5807-L5809 (CHIP)	QTL1013
	L5815, L5816 (CHIP)	QTL1013

CAPACITORS

Mark	No. Description	Part No.
	C5839 (0.1uF/5.5V)	ACH7141
	C5901, C5902	CCSRCH221J50
	C5829, C5831, C5834, C5836	CEHAZL100M50
	C5859, C5955	CEAT100M50
	C5819	CEAT101M16
	C5873	CEAT221M6R3
	C5868	CEAT331M10
	C5847	CEAT471M6R3
	C5812	CEATR10M50
	C5818	CEJQ100M16
	C5832, C5837, C5844	CEJQ100M25
	C5801,C5802,C5828,C5830,C5833	CEJQ1R0M50
	C5835	CEJQ1R0M50
	C5848, C5859	CEJQ221M6R3
	C5976	CKSRYB102K50
	C5817,C5838,C5840,C5850,C5858	CKSRYB103K50
	C5860,C5861,C5863,C5864,C5869	CKSRYB103K50
	C5950	CKSRYB103K50
	C5804,C5820,C5841,C5843,C5845	CKSRYB104K16
	C5849, C5856, C5866, C5872	CKSRYB104K16
	C5815	CKSRYB105K6R3
	C5842, C5846	CKSRYB471K50
	C5977	CKSRYB472K50
	C5857, C5862, C5867, C5871	CKSRYB473K50
	C5803	CKSRYF105Z10

RESISTORS

Mark	No. Description	Part No.
	R5840, R5841	RAB4C104J
	R5901, R5920	RAB4C221J
⚠	R5835, R5836	RD1/4MUF100J
⚠	R5930	RD1/4MUF101J
⚠	R5833, R5837	RD1/4MUF4R7J
	Other Resistors	RS1/16S###J

OTHERS

Mark	No. Description	Part No.
	CN5825 JE CONNECTOR	09R-JE
	CN5821, CN5823 JE CONNECTOR	17R-JE
	CN5822, CN5824 JE CONNECTOR	19R-JE
	CN5806 11P FFC CONNECTOR	52045-1145
	CN5802 13P FFC CONNECTOR	52045-1345
	CN5807 17P FFC CONNECTOR	52045-1745
	CN5801 14P FFC CONNECTOR	52492-1420
	J5806 2P CONNECTOR ASSY	ADX7375
	J5801 1P BOARD IN WIRE	ADX7376
	J5803 1P BOARD IN WIRE	ADX7391
	X5801 CERAMIC RES.(15.67MHz)	ASS7043
	CN5805 9P CONNECTOR	B09B-XASK-1
	CN5804 KR CONNECTOR	B5B-PH-K
	CN5827,CN5828 KR CONNECTOR	B6B-PH-K
	CN5810,CN5811 17P B TOB CON.	BTEM17S-1S
	CN5809 CONNECTOR	BTEM9S-1S
	CN5813,CN5815,CN5820 17P PLUG	KM200TA17
	CN5814 20P PLUG	KM200TA20
	CN5812 7P PLUG	KM200TA7
	CN5817 9P PLUG	KM200TA9
	5801 PCB BINDER	VEF1040
	CN5819 24P B TO B CON.	VKN1405
	CN5816,CN5818 30P B TO B CON.	VKN1408
	KN5802 EARTH METAL FITT.	VNF1084
	CN5826 3P TOP POST	B3B-EH
	CN5832 4P FFC Connector	VKN1490

S DSP ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC301	ADSST21161NKCA100
	IC101	AK4114VQ
	IC702	AYW7032
	IC203	BA4558F-HT
	IC703-IC706	BU4094BCFV
	IC401	DSPD56367PV150
	IC302, IC303	HY57V161610DTC-8
	IC402	IS61LV6416-12T
	IC202	IS62C256-45T
	IC403	IS63LV1024-12T
⚠	IC305, IC307, IC415, IC781	NJM2391DL1-33
⚠	IC416	NJM7223DL1-18
	IC701	PD5787A
	IC602	PDL017A8
	IC201	PM4007A
⚠	IC306	PQ018EZ01ZP
	IC204	TC74HCT08AF
	IC406, IC409, IC717	TC74VHC00FT
	IC712	TC74VHC04FT
	IC121, IC413, IC715	TC74VHC08FT
	IC111, IC714, IC117	TC74VHC125FT
	IC112-IC14, IC116, IC120	TC74VHC153FT
	IC412	TC74VHC157FT
	IC711	TC74VHC32FT
	IC115	TC74VHC4040FT
	IC707-IC710	TC74VHC573FT
	IC118, IC404, IC407, IC411	TC74VHC74FT
	IC102	TC74VHC00AFT
	IC719	TC74VHCT08AFT
	IC414	TC74VHCU04FT
	IC722	TC7SH04FU
	IC311, IC716, IC718, IC721	TC7SET08FU

Mark	No. Description	Part No.
	IC312	TC7SH32FU
	IC405, IC408	TC7SH86FU
	IC713	TC7W53FU
	IC414	TC7WH04FU
	IC104-IC106	TC7WU04FU
	IC205	TK15420M
	IC601	TUSB3200ACPAH
	Q203, Q204	2SA1037K
⚠	Q101, Q210, Q212	2SB1197K
	Q201, Q202	2SC2412K
	Q208, Q209	2SC4081
⚠	Q213	2SD1781K
	Q102, Q701	DTC124EK
	Q211	RN1903
	D203	1SS355
	D101, D102	DAP202K
	D202	KV1851

COILS AND FILTERS

Mark	No. Description	Part No.
	F201 (BAND PASS FILTER)	ATF7027
	L114, L117, L201, L206, L207(CHIP)	ATL7002
	L118, L301, L303(CHIP)	ATL7002
	L303, L305-L307, L405-L407 (CHIP)	ATL7002
	L409,L411,L701-L704(CHIP BEAD)	ATL7002
	L202	LCTA680J2520
	L102-L110, L113, L119, L120 (CHIP)	QTL1013
	L203, L204, L413 L401	QTL1013
	L601- L604, L705, L706	QTL1013

CAPACITORS

Mark	No. Description	Part No.
	C142, C148, C301, C302, C328	ACH7195
	C341, C403, C404	ACH7195
	C101, C112, C120, C128, C135	ACH7205
	C145, C155, C207, C209	ACH7205
	C219, C220, C234, C254, C618	ACH7205
	C781, C784	ACH7205
	C105, C160, C163, C166, C354	ACH7206
	C358, C363, C439, C442, C445	ACH7206
	C466, C601, C701, C711, C718	ACH7206
	C731, C783	ACH7206
	C152	CCSRCH100D50
	C615	CCSRCH101D50
	C151	CCSRCH120D50
	C231, C612, C613	CCSRCH180J50
	C116, C124, C132	CCSRCH220J50
	C272	CCSRCH221J50
	C115, C123, C131, C605, C606	CCSRCH470J50
	C216	CCSRCH561J50
	C211	CCSRCH750J50
	C229	CEVWNP4R7M16
	C222, C307-C310, C313	CKSRYB102K50
	C315, C316, C318, C320, C322	CKSRYB102K50
	C324, C326, C371, C374	CKSRYB102K50
	C381-C386, C395, C448, C455	CKSRYB102K50
	C614, C620	CKSRYB102K50
	C104, C108, C111, C113, C119	CKSRYB103K50
	C121, C127, C129, C140, C141	CKSRYB103K50
	C162, C164, C187, C202, C214	CKSRYB103K50
	C232, C233, C273, C604, C709	CKSRYB103K50
	C738, C739, C755, C757, C758	CKSRYB103K50
	C102, C106, C109, C118, C125	CKSRYB104K16

Mark	No. Description	Part No.
	C134, C136, C138, C143, C146	CKSRYB104K16
	C150, C156, C168, C170, C172	CKSRYB104K16
	C174, C176, C180, C182, C184	CKSRYB104K16
	C204-C206, C208, C210	CKSRYB104K16
	C212, C213, C215, C225-C228	CKSRYB104K16
	C230, C235, C237, C240-C242	CKSRYB104K16
	C244, C248, C251, C252, C255	CKSRYB104K16
	C257, C304, C312, C314, C317	CKSRYB104K16
	C321, C325, C330, C332	CKSRYB104K16
	C334, C335, C338, C340, C342	CKSRYB104K16
	C345, C347, C349, C351, C353	CKSRYB104K16
	C356, C357, C359, C361, C362	CKSRYB104K16
	C373, C387-C393, C396	CKSRYB104K16
	C401, C402, C405, C407	CKSRYB104K16
	C409, C410, C412, C416	CKSRYB104K16
	C418, C419, C421, C422, C424	CKSRYB104K16
	C426, C428, C430-C432	CKSRYB104K16
	C434, C435, C438, C441, C443	CKSRYB104K16
	C447, C450, C451, C453, C457	CKSRYB104K16
	C459, C460, C463, C465, C467	CKSRYB104K16
	C469, C472, C474, C475, C602	CKSRYB104K16
	C607, C609-C611, C617, C619	CKSRYB104K16
	C703, C705, C707, C713-C717	CKSRYB104K16
	C720, C722, C724, C726, C728	CKSRYB104K16
	C730, C733, C735, C737, C741	CKSRYB104K16
	C743-C745, C747, C749, C782	CKSRYB104K16
	C161, C165, C223, C224, C306	CKSRYB105K6R3
	C311, C319, C323, C327, C372	CKSRYB105K6R3
	C375, C394, C413, C710, C756	CKSRYB105K6R3
	C203	CKSRYB223K50
	C144, C147, C149, C157, C167	CKSRYB471K50
	C169, C171, C173, C175, C179	CKSRYB471K50
	C181, C183, C236, C238, C239	CKSRYB471K50
	C243, C247, C249, C250, C253	CKSRYB471K50
	C256, C305, C329, C331, C333	CKSRYB471K50
	C336, C337, C339, C343, C344	CKSRYB471K50
	C346, C348, C350, C352, C355	CKSRYB471K50
	C360, C406, C408, C411, C414	CKSRYB471K50
	C417, C420, C423, C425, C427	CKSRYB471K50
	C429, C433, C436, C437, C440	CKSRYB471K50
	C444, C446, C449, C452, C454	CKSRYB471K50
	C456, C458, C461, C462, C464	CKSRYB471K50
	C468, C470, C471, C473, C603	CKSRYB471K50
	C608, C616, C702, C704, C706	CKSRYB471K50
	C712	CKSRYB471K50
	C157	CKSRYB474K10
	C415	CKSRYB683K16

RESISTORS

Mark	No. Description	Part No.
	R156, R158, R159, R162, R163	RAB4C101J
	R172, R173, R184, R185, R701	RAB4C101J
	R716, R730, R731, R779, R780	RAB4C101J
	R788, R789	RAB4C101J
	R769-R771	RAB4C104J
	R138, R703, R714, R718, R722	RAB4C221J
	R725, R786, R787	RAB4C221J
	R835-R837, R840, R841, R851	RAB4C330J
	R854, R855, R869, R870	RAB4C330J
	R874, R875	RAB4C330J
	R406	RAB4C470J

Mark	No. Description	Part No.
	R301, R341, R351, R385, R812	RAB4C472J
	R814	RAB4C472J
	R405, R407, R736-R740	RAB4C473J
	R742, R743	RAB4C473J
	R339, R340, R382, R809	RAB4C4R7J
	R847-R850, R861-R864	RAB4C680J
	R141	RS1/16S1802D
	Other Resistors	RS1/16S###J

OTHERS

Mark	No. Description	Part No.
	CN706, CN707 14P FJ CONN.	14PL-FJ
	JA107, JA108 2P PIN JACK	AKB7148
	CN709 16P CONNECTOR	AKM7049
	CN708 22P CONNECTOR	AKM7052
	X201 CRYSTAL RES.(18.43MHz)	ASS7009
	X101 CRYSTAL RES.(24.576MHz)	XSS3003
	X601 CRYSTAL RES.(6.00MHz)	ASS7057
	X401 CRYSTAL RES.(12.5MHz)	ASS7056
	X701 CRYSTAL RES.(7.7MHz)	ASS7045
	CN704 2P VH SIDE CONN.	B2PS-VH
	CN701, CN702 17P B TO B CON.	BTEM17P-1R
	CN703 9P B TO B CON.	BTEM9P-1R
	JA101 USB CONNECTOR	DKN1237
	JA102-JA104 OPTICAL IN	GP1FA513RZ
	JA105, JA106 OPTICAL OUT	GP1FA502TZ
	CN705 22P CONNECTOR	RKN1063

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SEMICONDUCTORS

Mark	No. Description	Part No.
	IC501	ADSST-MEL100-K
	IC504(Flash Rom)	AYW7036
	IC502, IC503	HY57V161610DTC-8
⚠	IC505	NJM2391DL1-33
	IC508	PQ018EZ01ZP
	IC511	TC7SH08FU
	IC512	TC7SH32FU

COILS AND FILTERS

Mark	No. Description	Part No.
	L503, L505-L507, L511(CHIP)	ATL7002

CAPACITORS

Mark	No. Description	Part No.
	C501, C502 (CHIP OS 220/6.3)	ACH7195
	C527, C540 (CHIP OS 220/6.3)	ACH7195
	C553 (CHIP RZV 68/10)	ACH7205
	C553 (CHIP RZV100/6.3)	ACH7206
	C525, C578, C580	CKSRYB102K50
	C564, C506, C572, C574, C576	CKSRYB102K50
	C507, C509 , C512, C514, C515	CKSRYB102K50
	C517, C519, C521, C523, C525	CKSRYB102K50
	C584, C586, C590	CKSRYB102K50
	C510, C518, C522, C524, C526	CKSRYB105K6R3
	C505, C508, C588, C589	CKSRYB105K6R3
	C504, C520, C535, C537, C545	CKSRYB104K16
	C530, C533, C539, C541, C544	CKSRYB104K16
	C552, C557, C548, C549, C577	CKSRYB104K16
	C560, C562, C566, C568, C579	CKSRYB104K16
	C573, C575, C584, C586, C581	CKSRYB104K16
	C588, C590, C592, C594, C595	CKSRYB104K16
	C598, C511, C513, C516, C529	CKSRYB104K16
	C555, C567, C571, C573, C575	CKSRYB104K16
	C581, C582, C585, C587	CKSRYB104K16

Mark	No. Description	Part No.
	C532, C546, C547, C550, C551	CKSRYB471K50
	C559, C561, C554, C556, C568	CKSRYB471K50
	C565, C567, C571, C574, C587	CKSRYB471K50
	C589, C597, C503, C528, C531	CKSRYB471K50
	C534, C536, C538, C542, C543	CKSRYB471K50

RESISTORS

Mark	No. Description	Part No.
	R510, R519	RAB4C101J
	R933- R935, R938, R939	RAB4C330J
	R952, R953, R968, R969	RAB4C330J
	R973, R974	RAB4C330J
	R539, R540, R579, R906	RAB4C4R7J
	R911	RAB4C472J
	R509, R541, R551, R582, R908	RAB4C472J
	R510	RAB4C101J
	R945- R948	RAB4C680J
	R559- R962	RAB4C680J
	Other Resistors	RS1/16S###J

OTHERS

Mark	No. Description	Part No.
	CN501 16P SOCKET	AKP7122
	CN502 22P SOCKET	AKP7125
	CADE SPESER	DEC1772

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SEMICONDUCTORS

Mark	No. Description	Part No.
	IC6021, IC6041, IC6061, IC6081	DF1706E
	IC6105, IC6106, IC6205, IC6206	NJM2068D
	IC6305, IC6306, IC6405, IC6406	NJM2068D
	IC6103, IC6104, IC6203, IC6204	NJM5534DD
	IC6303, IC6304, IC6403, IC6404	NJM5534DD
	IC6101, IC6102, IC6201, IC6202	PCM1704U-1
	IC6301, IC6302, IC6401, IC6402	PCM1704U-1
⚠	IC6001	PQ3DZ13
	IC6022, IC6042, IC6062, IC6082	TC94A07F

COILSANDFILTERS

Mark	No. Description	Part No.
	L6001,L6021,L6041,L6061,L6081	ATL7002
	L6101-L6104, L6201-L6204(CHIP)	ATL7002
	L6301-L6304, L6401-L6404	ATL7002
	L6022, L6042, L6062, L6082	QTL1013

CAPACITORS

Mark	No. Description	Part No.
	C6147, C6148, C6247, C6248 (47uF/	ACH7208
	C6347, C6348, C6447, C6448 25V)	ACH7208
	C6031, C6032, C6051, C6052 (470uF	ACH7207
	C6071, C6072, C6091, C6092 /25V)	ACH7207
	C6026, C6046, C6066, C6086	CCSRCH101J50
	C6145, C6146, C6245, C6246	CCSRCH101J50
	C6345, C6346, C6445, C6446	CCSRCH101J50
	C6151, C6152, C6251, C6252	CCSRCH220J50
	C6351, C6352, C6451, C6452	CCSRCH220J50
	C6149, C6150, C6249, C6250	CCSRCH330J50
	C6349, C6350, C6449, C6450	CCSRCH330J50
	C6339, C6340, C6439 (4.7/16)	ACH7175
	C6139, C6140, C6239, (4.7/16)	ACH7175
	C6240, C440 (4.7/16)	ACH7175
	C6002	CEHAZA101M10
	C6323, C6324, C6423, C6424	CEHAZA101M10
	C6117, C6118, C6121, C6122	CEHAZL101M10
	C6127, C6128, C6217, C6218	CEHAZL101M10
	C6221, C6222, C6227, C6228	CEHAZL101M10
	C6317, C6318, C6321, C6322	CEHAZL101M10

Mark	No. Description	Part No.
	C6327, C6328, C6417, C6418	CEHAZL101M10
	C6421, C6422, C6427, C6428	CEHAZL101M10
	C6081(220/6.3)	ACH7204
	C6021, C6041, C6061(220/6.3)	ACH7204
	C6113, C6114, C6213, C6214	CEHAZL471M16
	C6313, C6314, C6413, C6414	CEHAZL471M16
	C6001	CEHAZL100M50
	C6103, C6104, C6109, C6110	CKSRYB103K50
	C6115, C6116, C6125, C6126	CKSRYB103K50
	C6203, C6204, C6209, C6210	CKSRYB103K50
	C6215, C6216, C6225, C6226	CKSRYB103K50
	C6303, C6304, C6309, C6310	CKSRYB103K50
	C6315, C6316, C6325, C6326	CKSRYB103K50
	C6403, C6404, C6409, C6410	CKSRYB103K50
	C6415, C6416, C6425, C6426	CKSRYB103K50
	C6022, C6042, C6062, C6082	CKSRYB104K16
	C6119, C6120, C6219, C6220	CKSRYB104K16
	C6319, C6320, C6419, C6420	CKSRYB104K16
	C6033, C6034, C6053, C6054	CKSRYB222K50
	C6073, C6074, C6093, C6094	CKSRYB222K50
	C6023, C6043, C6063, C6083	CKSRYB471K50
	C6105-C6108, C6205-C6208	CKSRYB471K50
	C6305-C6308, C6405-C6408	CKSRYB471K50
	C6027, C6028, C6047, C6048	CKSRYB473K50
	C6067, C6068, C6087, C6088	CKSRYB473K50
	C6131-C6134, C6141-C6144	CKSRYB473K50
	C6231-C6234, C6241-C6244	CKSRYB473K50
	C6331-C6334, C6341-C6344	CKSRYB473K50
	C6431-C6434, C6441-C6444	CKSRYB473K50
	C6101, C6102, C6111 (100uF/16v)	ACH7203
	C6112, C6202, C6211 (100uF/16v)	ACH7203
	C6123, C6124 (100uF/16v)	ACH7203
	C6212, C6302, C6311 (100uF/16v)	ACH7203
	C6223, C6224 (100uF/16v)	ACH7203
	C6201,C6301,C6401(100uF/16v)	ACH7203
	C6402,C6411,C6412(100uF/16v)	ACH7203
	C6423,C6424(100uF/16v)	ACH7203
	C6135,C6136,C6235,C6236(470pF)	VCE1035
	C6335,C6336,C6435,C6436(470pF)	VCE1035
	C6137,C6138,C6237,C6238(220pF)	VCE1040
	C6337,C6338,C6437,C6438(220pF)	VCE1040
	C6129,C6130,C6229,C6230(100pF)	VCE1045
	C6329,C6330,C6429,C6430(100pF)	VCE1045

RESISTORS

Mark	No. Description	Part No.
	R6101,R6102,R6201,R6202(2.55k)	ACN7105
	R6301,R6302,R6401,R6402(2.55k)	ACN7105
⚠	R6031, R6032, R6051, R6052	RD1/4MUF470J
⚠	R6071, R6072, R6091, R6092	RD1/4MUF470J
	Other Resistors	RS1/16S###J

OTHERS

Mark	No. Description	Part No.
	CN6001, CN6002 14P FJ CONN.	14R-FJ
	CN6004 17P SOCKET	KP200TA17L
	CN6003 7P SOCKET	KP200TA7L

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SEMICONDUCTORS

Mark	No. Description	Part No.
⚠	IC4101, IC4401, IC4601	PA9009A
⚠	IC4102, IC4302, IC4402, IC4602	PBD001A
⚠	IC4103, IC4403, IC4603	PBD002A
	Q4101, Q4301, Q4401, Q4601	2SA1255
	Q4801, Q4803, Q4805	2SC2412K
	Q4102, Q4402, Q4602	2SC3138
	Q4104, Q4304, Q4404, Q4604	2SC3326
	D4103-D4106,D4305,D4403-D4406	1SS355
	D4603-D4606	1SS355
	D4801	UDZ2.7B
	D4101, D4102, D4401, D4402	UDZS7.5B
	D4601, D4602	UDZS7.5B

CAPACITORS

Mark	No. Description	Part No.
	C4103, C4403(1000uF/10v)	ACH7210
	C4104, C4105 (0.1/200)	ACH7037
	C4110, C4111, C4410, C4411	CCSRCH220J50
	C4610, C4611	CCSRCH220J50
	C4809	CEAT221M16
	C4115, C4116, C4415, C4416	CEAT221M63
	C4615, C4616	CEAT221M63
	C4109, C4409, C4609	CEAT470M16
	C4801, C4803	CEAT471M63
	C4603 (1000uF/10v)	ACH7210
	C4608	CEHAZL470M25
	C4108, C4408	CEHAZL470M25
	C4101, C4401, C4601	CEHAZL101M10
	C4106, C4107, C4406, C4407	CEHAZL470M25
	C4606, C4607 (0.1/200)	ACH7037
	C4404, C4405 (0.1/200)	ACE7037
	C4604, C4605 (0.1/200)	ACE7037
	C4412, C4413 (0.22/50)	ACE7038
	C4112, C4113 (0.22/50)	ACE7038
	C4612, C4613 (0.22/50)	ACE7038
	C4117, C4317, C4417, C4617	CKSRYB104K25
	C4102, C4402, C4602	CKSRYB221K50

RESISTORS

Mark	No. Description	Part No.
⚠	R4110,R4111,R4125,R4126,R4310	ACN7107
⚠	R4325,R4410,R4411,R4425,R4426	ACN7107
⚠	R4610,R4611,R4625,R4626(0.1)	ACN7107
	R4117, R4417, R4617 (10k)	ACN7117
	R4103, R4403, R4603 (330)	ACN7118
	R4104, R4404, R4604 (22)	ACN7119
	R4127,R4128,R4327,R4427,R4428	RS1/16S1001F
	R4627, R4628	RS1/16S1001F
	R4129,R4130,R4329,R4429,R4430	RS1/16S1003F
	R4629, R4630	RS1/16S1003F
	R4116,R4133,R4134,R4316,R4333	RS1/16S1004F
	R4416, R4433, R4434, R4616	RS1/16S1004F
	R4633, R4634	RS1/16S1004F
	R4112,R4113,R4312,R4412,R4413	RS1/16S1502F
	R4612, R4613	RS1/16S1502F
	R4114,R4115,R4314,R4414,R4415	RS1/16S1503F
	R4614, R4615	RS1/16S1503F
	R4131,R4132,R4331,R4431,R4432	RS1/16S3902F
	R4631, R4632	RS1/16S3902F
⚠	R4118, R4418, R4618	RS1LMF2R2J
	Other Resistors	RS1/16S###J

OTHERS

Mark	No. Description	Part No.
	J4801 LEAD HOUSING	ADX7370
	CN4812 2P CONNECTOR	B02B-XASK-1
	CN4803 11P PLUG	KM250NA11L
	CN4805 15P PLUG	KM250NA15L

Mark	No. Description	Part No.
	CN4801 8P CONN.	S08B-XASK-1
	4801,4803,4805 SCREW TERM.	VNE1948
	4809 EARTH FITTING	VNF-091

W POWER AMP(C) ASSY

SEMICONDUCTORS

⚠	IC4301	PA9009A
	D4303, D4304	1SS355
	D4301, D4302	UDZS7.5B

CAPACITORS

	C4310, C4311	CCSRCH220J50
	C4315, C4316	CEAT221M63
	C4309	CEAT470M16
	C4303 (1000uF/10v)	ACH7210
	C4308	CEHAZL470M25
	C4301	CEHAZL101M10
	C4306, C4307	CEHAZL470M25
	C4304, C4305 (0.1/200)	ACE7037
	C4312, C4313 (0.22/50)	ACE7038
	C4302	CKSRYB221K50

RESISTORS

	R4317 (10k)	ACN7117
	R4303 (330)	ACN7118
	R4304 (22)	ACN7119
⚠	R4318	RS1LMF2R2J
	Other Resistors	RS1/16S###J

OTHERS

	CN4808 13P SOCKET	KP250NA13
	CN4807 15P SOCKET	KP250NA15

X POWER AMP(R) ASSY

SEMICONDUCTORS

⚠	IC4201, IC4501, IC4701	PA9009A
⚠	IC4202, IC4502, IC4702	PBD001A
⚠	IC4203, IC4303, IC4503, IC4703	PBD002A
	Q4201, Q4501, Q4701	2SA1255
	Q4802, Q4804, Q4806	2SC2412K
	Q4202, Q4302, Q4502, Q4702	2SC3138
	Q4504, Q4704, Q4204	2SC3326
	D4203-D4206,D4306,D4503-D4506	1SS355
	D4703-D4706	1SS355
	D4802	HZU2.7B2
	D4201, D4202, D4501, D4502	UDZS7.5B
	D4701, D4702	UDZS7.5B

CAPACITORS

	C4210, C4211, C4510, C4511	CCSRCH220J50
	C4710, C4711	CCSRCH220J50
	C4810	CEAT221M16
	C4215, C4216, C4515, C4516	CEAT221M63
	C4715, C4716	CEAT221M63
	C4209, C4509, C4709	CEAT470M16
	C4802, C4804	CEAT471M63
	C4203, C4503 (1000uF/10v)	ACH7210
	C4703 (1000uF/10v)	ACH7210
	C4208, C4508, C4708	CEHAZL470M25
	C4201, C4501, C4701	CEHAZL101M10
	C4206, C4207, C4506, C4507	CEHAZL470M25
	C4706, C4707	CEHAZL470M25

Mark	No. Description	Part No.
	C4204(0.1/200)	ACE7037
	C4504, C4505 (0.1/200)	ACE7037
	C4205 (0.1/200)	ACE7037
	C4704, C4705 (0.1/200)	ACE7037
	C4512, C4513 (0.22/50)	ACE7038
	C4212, C4213(0.22/50)	ACE7038
	C4712, C4713 (0.22/50)	ACE7038
	C4217, C4517, C4717	CKSRYB104K25
	C4202, C4502, C4702	CKSRYB221K50

RESISTORS

⚠	R4210,R4211,R4225,R4226,R4311	ACN7107
⚠	R4326,R4510,R4511,R4525,R4526	ACN7107
⚠	R4710, R4711, R4725, R4726(0.1)	ACN7107
	R4217, R4517, R4717 (10k)	ACN7117
	R4203, R4503, R4703 (330)	ACN7118
	R4204, R4504, R4704 (22)	ACN7119
	R4227,R4228,R4328,R4527,R4528	RS1/16S1001F
	R4727, R4728	RS1/16S1001F
	R4229,R4230,R4330,R4529,R4530	RS1/16S1003F
	R4729, R4730	RS1/16S1003F
	R4216,R4233,R4234,R4334,R4516	RS1/16S1004F
	R4533,R4534,R4716,R4733,R4734	RS1/16S1004F
	R4212,R4213,R4313,R4512,R4513	RS1/16S1502F
	R4712, R4713	RS1/16S1502F
	R4214,R4215,R4315,R4514,R4515	RS1/16S1503F
	R4714, R4715	RS1/16S1503F
	R4231,R4232,R4332,R4531,R4532	RS1/16S3902F
	R4731, R4732	RS1/16S3902F
⚠	R4218, R4518, R4718	RS1LMF2R2J
	Other Resistors	RS1/16S###J

OTHERS

	J4802 LEAD HOUSING	ADX7371
	CN4813 2P CONNECTOR	B02B-XASK-1
	CN4806 13 PLUG	KM250NA13L
	CN4804 9P PLUG	KM250NA9L
	CN4802 6P CONNECTOR	S06B-XASK-1
	4802,4804,4806 SCREW TER.	VNE1948
	4810 EARTH FITTING	VNF-091

Y POWER AMP(BR) ASSY

SEMICONDUCTORS

	Q4303, Q4403	2SC2412K
	Q4103	DTA124EK
	D4806	1SS355
	D4805	UDZS5.1B
	D4807, D4808	1SR154-400

CAPACITORS

	C4812	CKSRYF105Z10

RESISTORS

	Other Resistors	RS1/16S###J

OTHERS

	J4803 BOARD IN WIRE	ADX7372
	CN4809 11P SOCKET	KP250NA11
	CN4810 9P SOCKET	KP250NA9
	CN4811 8P CONNECTOR	S08B-XASK-1

Z POWER AMP(G) ASSY

OTHERS

Mark	No. Description	Part No.
	J4804 BOARD IN WIRE	ADX7363
	4807,4808 EARTH FITTING	VNF-091

AA LOCAL SUPPLY ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
⚠	IC4047 (315mA)	AEK7003
⚠	IC4023, IC4024 (500mA)	AEK7005
⚠	IC4045, IC4046 (500mA)	AEK7005
⚠	IC4036 (1A)	AEK7009
⚠	IC4035 (1.25A)	AEK7010
⚠	IC4011	LM1085IT-5.0
⚠	IC4021, IC4031	LM2940CT-5.0
⚠	IC4041	NJM7820FA
⚠	IC4043	NJM78M15FA
⚠	IC4033	NJM78M56FA
⚠	IC4042	NJM7918FA
⚠	IC4022, IC4032	NJM79M05FA
	Q4054	2SC3138
⚠	Q4022, Q4052	2SB951A
⚠	Q4021, Q4051	2SD1277A
	Q4055	2SB1189
	Q4056	2SD1767
	Q4057	2SA1255
	Q4053	DTC143EK
	D4031, D4032	1SS355
⚠	D4003, D4004	D3SBA20(B)
	D4041	HZU2.2B
	D4034	RB501V-40
	D4051-D4054	UDZS15B
	D4055, D4056	UDZS16B
	D4059, D4060	UDZS12B

CAPACITORS

Mark	No. Description	Part No.
	C4003 (1uF/250V)	ACE7036
	C4051, C4052 (2200uF/71V)	ACH7209
	C4011 (33OO0uF/16V)	ACH7200
	C4053, C4054	CEAT101M63
	C4023, C4024	CEAT471M16
	C4021, C4022, C4032	CEAT472M16
	C4041, C4042	CEAT472M35
	C4031	CEAT682M16
	C4025, C4026	CEHAZA470M16
	C4045-C4047	CEJQ100M50
	C4055, C4056	CEJQ100M63
	C4013, C4035, C4036, C4038	CEJQ101M6R3
	C4029,C4030,C4039,C4040,C4049	CEJQ470M16
	C4002 (0.47/200)	ACE7039
	C4001 (1uF/63v)	ACE7040
	C4043, C4044, C4048	CKSRYB103K50
	C4014, C4015, C4027, C4028	CKSRYB104K16
	C4033, C4034, C4037	CKSRYB104K16
	C4061-C4064	CKSRYB473K16
⚠	D4002, D4005	S1VB20/F03
	D4059, D4060	UDZ12B
	D4051-D4054	UDZ15B
	D4055, D4056	UDZ16B

RESISTORS

Mark	No. Description	Part No.
⚠	R4003	RD1/2MMF101J
⚠	R4021, R4022	RD1/4MUF151J
⚠	R4001, R4002	RD1/4MUF330J
⚠	R4051, R4052	RD1/4MUF472J
	R4067, R4068	RS1/10S473J
	Other Resistors	RS1/16S###J

OTHERS

Mark	No. Description	Part No.
	J4004 6P CONNECTOR	ADX7373
	J4002 4P CONNECTOR	ADX7374
	CN4002 3P CONNECTOR	B03B-XASK-1
	CN4001 8P CONNECTOR	B08B-XASK-1
	CN4004 9P CONNECTOR	B09B-XASK-1
	CN4005 2P CONNECTOR	B2P-VH
	KN4001, KN4002 EARTH FIT.	VNF1084

AB AC PRIMARY ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC1103	BU4094BC
⚠	IC1101	NJM78M56FA
⚠	IC1102	NJM79M24FA
	Q1102	2SB1197K
	Q1101, Q1105	2SC2412K
	Q1106	DTA124EK
	Q1103, Q1104	DTC124EK
	D1103, D1106, D1109, D1108, D1105	1SS355
⚠	D1101	S1VB20/F03
	D1102	UDZS5.1B
	D1107	HZU2.7B2
	IC351	M56788AFP
⚠	IC303 (1.8V)	PQ018EZ01ZP
	IC601	STI5519AVB-B0C
	IC605	TC7WU04FU
	IC603	VYW1948

COILS AND FILTERS

Mark	No. Description	Part No.
	L1101, L1102 (NOISE FILTER)	RTF1167

TRANSFORMERS

Mark	No. Description	Part No.
⚠	T1101	ATT7043

CAPACITORS

Mark	No. Description	Part No.
	C1107	CCSRCH101J50
	C1109	CEAT100M50
	C1103, C1104	CEAT101M10
	C1102	CEAT222M25
	C1110	CEAT470M25
	C1101 (1uF/100)	ACE7037
	C1106	CKSRYB104K16
	C1105	CKSRYB473K16

RESISTORS

Mark	No. Description	Part No.
	Other Resistors	RS1/16S###J

OTHERS

Mark	No. Description	Part No.
	CN1105 3P JUMPER CON.	52151-0310
⚠	CN1101 6P SOCKET	AKP7141
	CN1104 14P FFC CON.	HLEM14R-1
	CN1102 7P SOCKET	KP250NA7
	CN1103 8P SOCKET	KP250NA8
	CN1106 2P SOCKET	B02B-XASK
	CN1107 3P SOCKET	B03B-XASK
	KN1101 EARTH FITT.	VNF1084

AC POWER SW ASSY

SWITCHES AND RELAYS

Mark	No. Description	Part No.
⚠	S1301	ASG7024

CAPACITORS

	C1301, C1302	CFTLA103J50

OTHERS

	CN1301 3P JUMPER CON.	52147-0310

AD SP(A) ASSY

SEMICONDUCTORS

	Q1201, Q1203, Q1205, Q1207	DTA124EK
	Q1202, Q1204, Q1206, Q1208	DTC124EK
	Q1209, Q1210	DTC124EK
	D1201-D1210	1SS355

SWITCHES AND RELAYS

	RY1201-RY1205	ASR7001

CAPACITORS

	C1201-C1207	CQHA472J2A

RESISTORS

⚠	R1231-R1237	RD1/4MUF100J
⚠	R1211, R1212	RS2LMF331J
⚠	R1213, R1214	RS1LMF471J
	Other Resistors	RS1/16S###J

OTHERS

	J1201 BOARD IN WIRE	ADX7362
	J1206 3P CONN.	ADX7364
	J1207, J1208 1P WIRE	ADX7368
⚠	CN1202 8P SP TERMINAL	AKE7087
⚠	CN1201 6P SP TERMINAL	AKE7088
	L1201-L1207 AF COIL	ATH1053
	CN1206 4P FFC CONN.	HLEM4S-1
	CN1205 8P PLUG	KM250NA8L

AE FL SUPPLY ASSY

SEMICONDUCTORS

⚠	Q1901	2SC5174P
	D1901, D1902	UDZ22B

CAPACITORS

	C1901-C1903	CEJQ100M50

RESISTORS

⚠	R1901	RD1/4MUF272J
	Other Resistors	RS1/16S###J

OTHERS

	CN1902 4P JUMPER CONN.	52147-0410
	CN1901 4P CONN.	B04B-XASK-1

AF STANDBY ASSY

SWITCHES AND RELAYS

	S1901	ASG7013

OTHERS

	CN1903 3P FFC CONN.	52044-0345

AG POSISTER(L) ASSY

OTHERS

	J1901 2P CONNECTOR ASSY	ADX7365
⚠	TH1901 POSISTOR	AEX7006

Mark	No. Description	Part No.

AH POSISTER(R) ASSY

OTHERS

	J1902 2P CONNECTOR ASSY	ADX7365
⚠	TH1902 POSISTOR	AEX7006

AI DSP DIODE ASSY

SEMICONDUCTORS

⚠	D1903	LN6SB60-4003

OTHERS

	CN1904 4P CONNECTOR	S04B-XASK-1

AJ SP(B) ASSY

SEMICONDUCTORS

	Q1004	DTA124EK
	Q1002, Q1003	DTC124EK
	Q1001	DTC143EK
	D1001-D1006	1SS355

COILS AND FILTERS

⚠	L1001 (LINE FILTER)	ATF7018

SWITCHES AND RELAYS

	RY1003	ASR7001
⚠	RY1002	ASR7016
⚠	RY1001	ASR7022

CAPACITORS

⚠	C1001, C1002 (0.01uF/AC250V)	ACG7033
	C1003, C1004	CQHA472J2A

RESISTORS

⚠	R1002 (15ohm 10W)	ACN7116
⚠	R1003 (2.2ohm 1/2W)	RCN1080
	Other Resistors	RS1/16S###J

OTHERS

⚠	CN1006 4P SP TERMINAL	AKE7089
⚠	CN1001 6P PLUG	AKM7056
⚠	1004 1P AC OUTLET	AKP1033
	H1001,H1002 FUSE HOL.	AKR1007
	CN1005 7P PLUG	KM250NA7L
⚠	CN1002 AC CORD SOCKET	RKP1751
⚠	CN1003 AMP U-P CONN.	RKP1834
	1001 SCREW TER.	VNE1948

AK DIODE ASSY

SEMICONDUCTORS

⚠	D1501	KCH30A15
⚠	D1502	KRH30A15

CAPACITORS

	C1501(1uF/250V)	ACE7036

RESISTORS

⚠	R1501	RD1/2MMF820J

OTHERS

	J1501 BOARD IN WIRE	ADX7358
	J1502 BOARD IN WIRE	ADX7359
	J1503 BOARD IN WIRE	ADX7360
	J1504 BOARD IN WIRE	ADX7361
	CN1501 Connector	B03B-XASK
	CN1502 Connector	B3B-EH

AL FUSE ASSY

OTHERS

Mark	No. Description	Part No.
	H1801-H1810 FUSE CLIP	AKR1004
	CN1803 4P CONNECTOR	B04B-XASK-1
	CN1802 8P CONNECTOR	B08B-XASK-1
	CN1801 12P CONNECTOR	S12B-XASK-1

AM TRANS(A) ASSY

CAPACITORS

Mark	No. Description	Part No.
	C1601 (1uF/63v)	ACE7040

RESISTORS

Mark	No. Description	Part No.
⚠	R1601	RD1/4MUF100J

OTHERS

Mark	No. Description	Part No.
	CN1601 5P CONNECTOR	B05B-XASK-1

AN TRANS(B) ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
⚠	D1701	S1VB20/F03
	D1702	UDZS7.5B

CAPACITORS

Mark	No. Description	Part No.
	C1701	CEAT331M50
	C1702	CEJQ101M10

RESISTORS

Mark	No. Description	Part No.
⚠	R1703-R1706	RS1/16S2R2J

OTHERS

Mark	No. Description	Part No.
⚠	IC1703 PROTECTOR(750mA)	AEK7007
	H1701-H1704 FUSE CLIP	AKR1004
	CN1701 3P CONNECTOR	B03B-XASK-1
	CN1702 7P CONNECTOR	B07B-XASK-1

AO 1394 MODULE ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC203	BU2370FV
	IC303	NJU7093AF
	IC302	K4S641632F-TC75
⚠	IC2	MM1562FF
⚠	IC1	NJM2391DL1-33
	IC204	NJU7093AF
	IC101	PD5787A
	IC103	PST9245
	IC401	SM5819AF
	IC405	TC74VHC541FT
	IC104	TC74VHCT125AFT
	IC205	TC7SH08FU
	IC404	TC7SZ125FT
	IC201	TSB43CA42GGW
	IC301	PD8112A
	Q101, Q301	DTA124EUA
	Q401	DTA143EUA
	D102	RB501V-40

COILS AND FILTERS

Mark	No. Description	Part No.
	X302 (22.579MHz)	ASS7054
	L1, L101, L201-L203 (CHIP_	ATL7002
	L301, L302, L401 INDUCTOR)	ATL7002
	L403- L405	ATL7002
	X201 (24.58MHz)	ASS7055
	X101 (CERAMIC RES.)	VSS1179
	L204- L207 (COIL)	VTH1043

CAPACITORS

Mark	No. Description	Part No.
	C329 (10/6.3)	ACG7046
	C401, C428 (220/6.3)	ACG7195
	C242, C241	CCSRCH221J50
	C13, C401	CCSRCH471J50
	C9, C419	CEV101M16
	C206, C304, C321	CEVL101M6R3
	C103, C21, C232	CEVL101M6R3
	C211, C324	CKSRYB102K50
	C113, C213	CKSRYB102K50
	C215, C216, C310	CKSRYB102K50
	C102, C111	CKSRYB103K50
	C105- C109, C205	CKSRYB104K16
	C101, C104, C110, C202, C204	CKSRYB104K16
	C1, C201, C203, C207, C212	CKSRYB104K16
	C209-C210, C214, C22O, C221	CKSRYB104K16
	C222, C223, C235, C241, C246	CKSRYB104K16
	C224-C226, C112, C322, C323	CKSRYB104K16
	C411, C412, C427	CKSRYB104K16
	C248, C249, C325, C327	CKSRYB104K16
	C3, C301-C305, C309, C318-C320	CKSRYB104K16
	C408-C410, C333, C404, C416	CKSRYB104K16
	C415, C424, C247, C420	CKSRYB104K16
	C10, C11, C14, C15, C244	CKSRYB105K6R3
	C245, C326	CKSRYB105K6R3
	C330	CKSRYB472K50
	C328	CKSRYB474K10

RESISTORS

Mark	No. Description	Part No.
	R110, R119, R205, R220-R223	RAB4C101J
	R230- R231, R245, R246	RAB4C101J
	R127- R130	RAB4C101J
	R407	RAB4C221J
	R308, R309, R310, R339, R340	RAB4C470J
	R343- R350	RAB4C470J
	R203, R216, R220, R206	RAB4C472J
	R221, R223, R234, R239, R240	RAB4C472J
	R238, R356, R135- R138	RAB4C472J
	R302, R402	RAB4C680J
	R294, R295, R275, R276	RS1/16S5101F
	R283-R286, R289-R292	RS1/16S56R0D
	R206, R213	RS1/16S6341D
	Other Resistors	RS1/16S###J

OTHERS

Mark	No. Description	Part No.
	CN101 7P Connector	RKN1048
	CN401 22P Connector	VKN1426
	CN402 10P FFC Connector	VKN1414
	JA1, JA2 iLINK	VKN1800

AP POSISTER(MT) ASSY

OTHERS

Mark	No. Description	Part No.
	CN1905 KR Connector	S2B-PH-K-S
⚠	TH1903 POSISTOR	PTFM04B220Q2N34B0

AQ 12V TRIGGER ASSY

CAPACITORS

Mark	No. Description	Part No.
	C4071, C4072	CKSRYB103K50

Mark No.	Description	Part No.
RESISTORS		
R4071- R4073		RS1/16S0R0J
OTHERS		
CN4071	2P MIN JACK	AKN-209
CN4072	4P FFC Connector	VKN1235

6. ADJUSTMENT

There is no information to be shown in this chapter.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 Test mode

●How to Enter the Test Mode

With the attached Remote Control Unit.

1. Press the [CH -], [VOL +] and [ENTER] keys simultaneously for 3 seconds.
2. Press the [DEVICE] key.
3. Press the [⬇] key to advance a page.
4. Press the [AV AMP] key.
5. Press the [➡] key so that the page advances to 5/7.

1. Test Mode ON (Press [ON] key)

- Set the function to CD.
- Set the signal selection to AUTO.
- Set speaker A to ON and speaker B to OFF.
- Set the BASS and TREBLE to +6.
- Set the remaining items to their factory settings.

LCD Display: TEST MODE

2. Test Mode OFF (Press [OFF] key)

When you quit Test mode, the unit automatically enters STANDBY status.

Note: Do NOT quit Test mode by disconnecting the power cord or turn the Mecha. switch to OFF. Doing so prevents factory-set data

3. Items to be checked in Test mode

For checking the main unit of a product: Remote control keys display each item.

1. FL display check (Press [1] key (page 5/7 of AV AMP))

Normal display → All FLs and LEDs on → All FLs and LEDs off → Normal display→ . . .

FL Display transition:
TEST MODE → FL ALL ON → FL ALL OFF → TEST MODE

2. Bass and treble operations (Press [4] key (page 5/7 of AV AMP))

Each time this code is issued, the bass and treble values change.
In modes (THX and Stream Direct) in which tone control is invalid, the display also changes as shown below.
To use, select a mode (Standard, etc.) in which tone control is valid.

FL Display transition:
TRE/BASS 0dB → TRE/BASS MAX → TRE/BASS 0dB

Remarks:
In Test mode, the bass and treble keys on the main unit functions as follows:
+ : 0 dB → +6 dB → 0 dB → +6 dB, . . .
– : 0 dB → – 6 dB → 0 dB → – 6 dB, . . .

3. Master volume switching (Press [5] key (page 5/7 of AV AMP))

When this code is issued, the master volume changes.
Trimming of all channels becomes 0 dB at this time.

FL Display transition:
TEST VOL MIN → TEST VOL MAX → TEST VOL MIN

4. Tuner 9K/10K switching (Press [6] key (page 6/7 of AV AMP))

When this code is issued, the reception frequency interval of the tuner cyclically changes.
The code is valid only with models (SD models) having 9K/10K switching capability.

FL display transition:
TEST TUN 9K → TEST TUN 10K → TEST TUN 9K

5. FAN ON/OFF (Press [8] key (page 6/7 of AV AMP))

When this code is issued, the fan turns on or off.

FL display transition: FAN OFF → FAN ON

OFF : Fan stops.
ON : Fan operates.

6. Microphone input check (Press [9] key (page 6/7 of AV AMP))

When this code is issued, Direct mode is selected (a path that bypasses DSP), and a microphone input signal will be output from the pre-output on the front panel.

- Function becomes CD.
- Signal selection becomes AUTO.

FL display transition: TEST MIC CHECK

7. RS232C operation check (Press [2] key (page 7/7 of AV AMP))

When this code is issued, the RS-232C transmission port is switched to act as a general-purpose port, and self-check of data input/output ports is performed.
The signal ("L" output) at the data output port is read to the data-input port and checked as to whether it is correct or not. "H" is output from the CTS port.

If the port self-check successfully ends:

FL display transition: MAIN RS232C OK

If the port self-check fails:

FL display transition: MAIN RS232C NG

8. Tuner: Auto scan (Press [3] key (page 8/8 of AV AMP))

When this code is issued, an auto scan operation begins. The step of frequency increment is forcibly set to 9K.
If the function is not Tuner, it is switched to Tuner, then auto scanning starts from 88.5 MHz FM in the + direction.When the code is issued again, auto scan starts from 1062 kHz AM in the – direction.
The reception points on the line:
AM: 1008 kHz
FM: 89 MHz

Note: If this code is issued during auto scanning, it merely causes the operation to stop. Issue the code again to resume auto scanning.

9. Video converter operation check (Press [7] key (page 8/8 of AV AMP))

When this code is issued, All-through mode will be selected.
The video converter operation is deactivated.
The following assignment will be made for component connectors 1 to 3 and D4 connectors 1 and 2.

Component 1	: DVD/LD
Component 2	: TV/DVD
Component 3	: VCR2
D4-1	: SAT
D4-2	: DVR/VCR1

FL display transition: ALL THROUGH

7.1.2 FAILURE DIAGNOSIS OF THE POWER AMPLIFIER

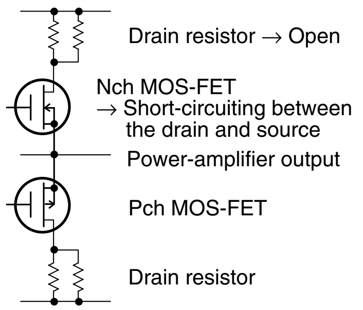
If the power is turned off after "AMP ERR" flashes on the FL, the power amplifier is damaged, and DC voltage is output.
In this case, either or both of the current amplifier section or/and the voltage amplifier section is/are damaged. Diagnose the sections in failure, as indicated below.

The main cause for power amplifier damage is damage to the MOS-FET caused by current overload as a result of short-circuiting of the speaker terminals, use of speakers with impedance lower than guaranteed, etc. Therefore, first diagnose the current amplifier section, then the voltage amplifier section.

1. Damage to the current amplifier section

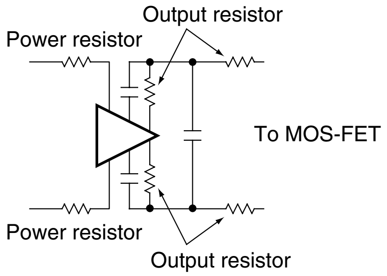
Many cases of MOS-FET damage caused by current overload are results of short-circuiting between the drain and source. The drain resistor opens because of excessive drain current.
In this case, the channel in failure can be identified by measuring the resistance of a MOS-FET; if the resistance between the drain and source of a channel is 0 ohm, and the drain resistance is • ohms, that channel is in failure. You can also visually confirm the channel in failure from a damage scar on the surface of the part generated as a result of opening of the drain resistor.

If one of the paired MOS-FETs in a push-pull circuit is damaged, another MOS-FET may be damaged even if the resistance measured by a tester shows no sign of short-circuiting of that MOS-FET. Replace both parts when either needs to be replaced.



2. Damage to the voltage amplifier section

The voltage amplifier section may be damaged by oscillation caused by unusual load connection, high-frequency output outside the audible frequency range with high amplitude, or the effect of damage to the power amplifier section. One possible part to be damaged is the IC, and two power resistors and four output resistors may be open. As a MOS-FET and IC are simultaneously damaged in most cases, both the MOS-FET and IC must be replaced when the MOS-FET is damaged. Therefore, if either the N-ch MOS-FET, P-ch MOS-FET, or IC needs to be replaced, replace all of them.

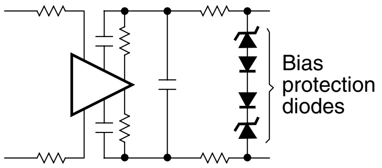


In a rare case when only the IC was damaged, the channel in failure can be identified by searching for a channel that outputs DC voltage when the power is turned on.

If is recommended that failure diagnosis of the power amplifier of this unit be performed with the power off, because the power amplifier section, which has a small number of components, can be easily repaired by replacement of semiconductors or according to measurement of resistance values.
If failure diagnosis of the voltage amplifier section must be performed while the power is on, be sure to disconnect the connection between the voltage amplifier section and the MOS-FET. If a measuring instrument touches the gate of the MOS-FET being powered, the MOS-FET may be damaged by its oscillation.

3. Damage to other parts

If the power amplifier is damaged, the bias protection diodes may be degraded or open.
After repairing the power amplifier, check that the four bias protection diodes of the channel in failure are not degraded or open by measuring their Vf (forward voltage drop) with a tester.
If these diodes are degraded, distortion may appear or the frequency characteristics may be affected. If they are open, when any abnormality occurs in the power amplifier next time, the damage to the MOS-FETs may be expanded.



7.1.3 PROTECTION CIRCUIT CONTROL SPECIFICATIONS

(1) Fan control

Valid with European and other general-area models only.

1. Fan on/off

If the temperature at the transformer rises, the TRANS_DET port becomes "L". Detecting "L", the microcomputer starts the fan.

2. Fan detection

If the fan is forcibly stopped, the FAN_DET port becomes "H". Detecting "H", the microcomputer performs the following operations:

1. System muting on
2. Protection relays off

The warning indication "FAN STOP" appears (flashing) on the FL display.
If this status continues for more than 3 seconds, the power is turned off (for Standby mode) and Standby indicator blinks.
If the port becomes "L" within 3 seconds, the unit resets automatically.

(2) Temperature detection

If the temperature at the heat sink rises, the TEMP1 port becomes "H". Detecting "H", the microcomputer performs the following operations:

1. System muting on
2. Protection relays off

The warning indication "OVER HEAT" appears on the FL display. If the temperature fall down and the port becomes "L", the unit resets automatocally.

(3) Overload detection (abnormality detection)

If the speaker terminals are short-circuited or low-load driving is detected, the OL_DET port becomes "H"
Detecting "H" edge interrupt in an interrupt process, the microcomputer performs the following operations:

1. System muting on
2. All relays off (expander output off)
   The expander output is turned off to perform detection during the interrupt. As the AC relay is also turned off, no warning indication appears on the FL display.
3. Power off (Standby mode)
   Standby indicator blinks.

(4) DC detection (defect detection)

Only DC detection is enabled 2 seconds after power-on.
If there is a fault in the power amplifier or a high-level signal lower than 5 Hz is input, the DC_DET port becomes "H"
Detecting "H" the microcomputer performs the following operations:

1. System muting on
2. Speaker relay off (Control with the display microcomputer)

The warning indication "AMP ERR" appears on the FL display.
If this status continues for more than 3 seconds, the power is turned off (for Standby mode) and Standby indicator blinks.
If the port becomes "L" within 3 seconds, the unit resets automatically.

When the power is turned off owing to DC detection (also when a user prompted by the warning indication turns off the switch on the primary side), key inputs are disabled for 60 seconds.
The microcomputer backs up the value of the 60-second timer.
The unit will only enter Standby mode, and power will not be turned on within 60 seconds in response to a key input after power-off on the primary side. (When the switch on the primary side is turned on again, key inputs will be limited for 60 seconds even if the timer value is less than 60 seconds.)
After DC detection, power-on from the multiroom side is also disabled for 60 seconds.
If the unit resets within 3 seconds (before the power is turned off) after DC detection, the normal operation is restored.

(5) Diagnostic mode

This mode is only for servicing and checking the circuit design, and not open to users.
When the DNR key and VSEL key are both held pressed for 3 seconds in Standby mode, the power is turned on, and the number of times of each defect or abnormality detection is sequentially displayed on the FL display.
Displayed items:

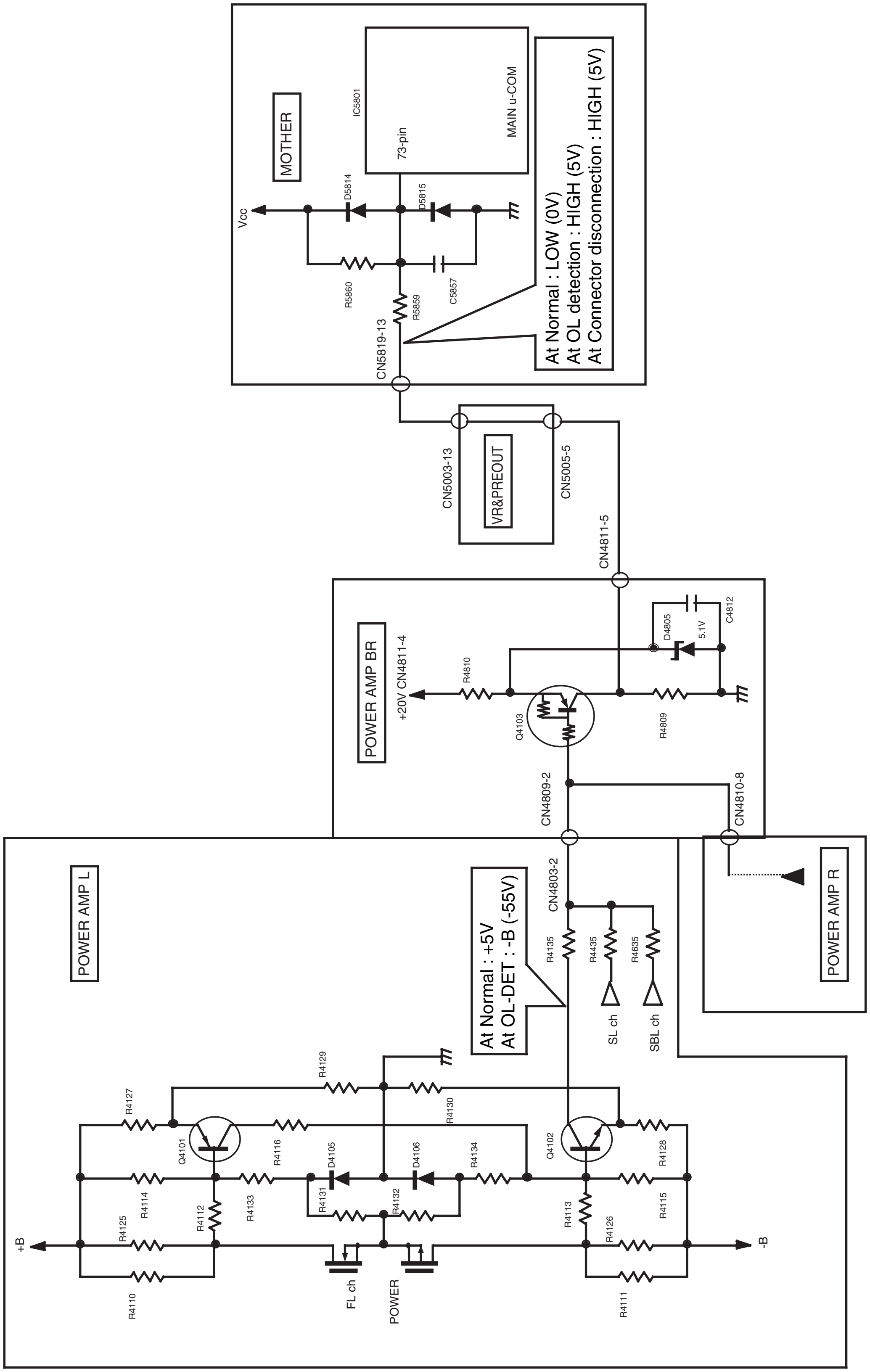
- DC detection
- Overload detection
- Fan detection
- Temperature detection

Hold the DNR key and VSEL key pressed for 3 seconds in Standby mode.

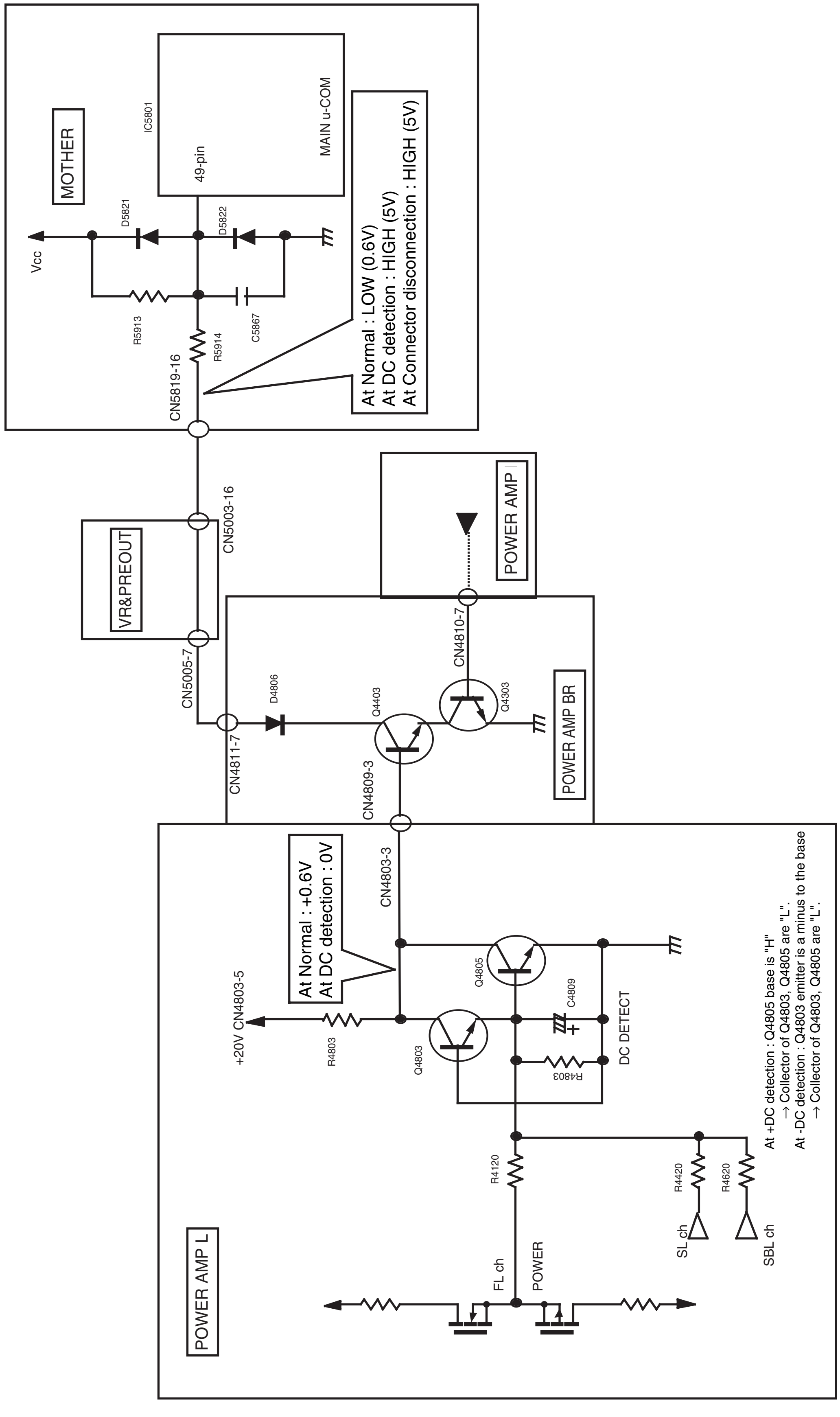
```
PROTECT  CHECK
DC            003
        ↓
PROTECT  CHECK
OVER          000
        ↓
PROTECT  CHECK
TEMP          000
```

There is no specific mode for clearing the above-mentioned diagnostic mode.
Diagnostic mode is only cleared with an all-reset operation.

(3) Overload detection (abnormality detection)


MOTHER
IC5801
73-pin
MAIN u-COM
At Normal : LOW (0V)
At OL detection : HIGH (5V)
At Connector disconnection : HIGH (5V)
Vcc
D5814
D5815
R5860
C5857
R5859
CN5819-13
CN5003-13
VR&PREOUT
CN5005-5
CN4811-5
POWER AMP BR
+20V CN4811-4
R4810
Q4103
D4805
5.1V
C4812
R4809
CN4809-2
CN4810-8
POWER AMP R
POWER AMP L
CN4803-2
At Normal : +5V
At OL-DET : -B (-55V)
R4135
R4435
R4635
SL ch
SBL ch
R4129
R4130
R4127
Q4101
R4116
D4105
D4106
R4134
Q4102
R4128
R4114
R4133
R4131
R4132
R4113
R4115
R4125
R4112
R4126
+B
-B
R4110
FL ch
POWER
R4111

(4) DC detection (defect detection)


MOTHER
IC5801
MAIN u-COM
49-pin
Vcc
D5821
D5822
R5913
R5914
C5867
CN5819-16
At Normal : LOW (0.6V)
At DC detection : HIGH (5V)
At Connector disconnection : HIGH (5V)
CN5003-16
VR&PREOUT
CN5005-7
POWER AMP
CN4810-7
D4806
Q4403
Q4303
POWER AMP BR
CN4811-7
CN4809-3
CN4803-3
At Normal : +0.6V
At DC detection : 0V
+20V CN4803-5
R4803
Q4803
Q4805
C4809
R4803
DC DETECT
At +DC detection : Q4805 base is "H"
→ Collector of Q4803, Q4805 are "L".
At -DC detection : Q4803 emitter is a minus to the base
→ Collector of Q4803, Q4805 are "L".
R4120
R4420
R4620
SL ch
SBL ch
FL ch
POWER
POWER AMP L

● List of the protection measures

○ : Protection available × : Protection not available

Type of Protection	Purpose	How to Detect	Measures	Warning Indication	Remarks	North America	Japan	Europe	General
DC detection	To detect failure in the amplifiers To perform processing for protection of externally connected speakers	When the DC_DET port becomes "H"	Muting is set to ON, and the protection relay is set to OFF. Then after 3 seconds, the power is turned off.	"AMP ERR" flashes for 3 sec.	Once "H" is detected, key input is restricted for 60 sec. If the DC_DET port becomes "L" within 3 sec, the unit will automatically recover.	○	○	○	○
AMP overload	To detect an overload (abnormal status) To protect the amplifiers when a low-load drive or speaker terminal is short-circuited	When the AMP_OL port becomes "H" (detected by an interrupt)	Muting is set to ON, and all relays are set to OFF. Then, the power is immediately turned off.	None		○	○	○	○
Fan control	To protect against temperature rise of the heat sink	When the TEMP 1 port becomes "H"	The fan is activated.	None	The fan is stopped when the TEMP 1 port becomes "L."	×	×	○	○
Fan stopped	To protect against forcible fan shutoff while the fan is operating	When the FAN_DET port becomes "H"	Muting is set to ON, and the protection relay is set to OFF. Then after 3 seconds, the power is turned off.	"FAN STOP" flashes for 3 sec.	If the FAN_DET port becomes "L" within 3 sec, the unit will automatically recover.	×	○	○	○
Detection of temperature rise of the transformer	To protect against temperature rise of the transformer	When the TRANS_DET port becomes "L"	The fan is activated.	None	The fan is stopped when the TRANS_DET port becomes "H."	×	○	×	×
Temperature detection (1)	To protect against temperature rise of the heat sink	When the TEMP 1 port becomes "H"	Muting is set to ON, and the protection relay is set to OFF. Then after 3 seconds, the power is turned off.	"OVERHEAT" flashes for 3 sec.	If the TEMP 1 port becomes "L" within 3 sec, the unit will automatically recover.	○	○	×	×
Temperature detection (2)	To protect against temperature rise of the heat sink. Self-recovery-type protection function (thermal cutout)	When the TRANS_DET port becomes "H"	Muting is set to ON, and the speaker relay is set to OFF.	"OVERHEAT" flashes.	A warning indication will be displayed until the TRANS_DET port becomes "L." Five seconds after the TRANS_DET port becomes "L," the unit will automatically recover.	×	×	○	○

Note: The reason for the unit's self-recovery or enabling of key input after DC was detected is that the DC detection circuit is designed to detect not only DC but also low frequencies (5 Hz or less), which may result in cases of DC detection when there is no failure.

7.1.4 1394 Unit

●Operational Outline of the IEEE 1394 Unit

This unit supports the A&M protocol (Audio and Music Data transmission Protocol), which, among the IEEE 1394 audio and video protocols, is employed for audio equipment and electronic musical instruments, etc. As the unit does not support the MPEG2-TS protocol (for BS digital tuners and D-VHS) or the DV protocol (for digital video cameras and Pioneer's DVR) among IEEE 1394 audio and video protocols, it does not support video data transmission.

The main commands supported by this unit are: For sending, the PLAY command to a player, and for receiving, the commands for switching functions, increasing/decreasing the volume, muting on/off, and stream information (for inquiring about the receiving capabilities of the receiver).

Audio data (media) that can be received by the unit are as follows:

- DVD-A (2 channels, multiple channels)
- SACD (2 channels, multiple channels)
- IEC 60958 (DVD-V, DVD-RW, CD, VCD, MP3, DTS-CD, etc.)

The received data are demodulated separately for the above three signal formats in the IEEE 1394 receiving IC, output to another IC for jitterless transmission, then output to a third IC for DIR or to the DSP of the main unit.

As to SACD data, DSD streams are converted to multibit data at the SACD/PCM converting IC, and this enables SACD data processing at the DSP of the main unit.

In jitterless transmission, audio data with jitter generated during IEEE 1394 transmission (actually, jitter contained in sync signals that cannot be reduced by the PLL for audio receiving) are cached in the buffer RAM in the receiver up to a certain amount, and then read out by a highly accurate crystal-oscillation clock in the receiver, which enables reduction of jitter. The receiver controls the amount of cached data in the buffer RAM such that a certain amount of data is always cached. If the amount of cached data falls below the specified level, a request is sent to increase the playback speed (transmission volume per unit hour) (+1%). If the amount of cached data exceeds the specified level, a request is sent to decrease the playback speed (-1%). Thus, data transmitted in jitterless transmission are delayed by about 0.7 sec behind the time indicated on the FL of the transmitting device, compared with data transmitted in normal transmission. Moreover, as mentioned above, because the sending device switches the system clock according to the request of the receiving device, sync of the video signal may be unlocked, and the audio signal would be delayed behind a video signal because of its being cached. So many sending devices do not adopt jitterless transmission for content having both audio and video signals.

Both the sending and receiving devices must support jitterless transmission to enable this type of transmission. Start of jitterless transmission is requested by the receiving device; however, depending on the status of the sending device (type of media, etc.), jitterless transmission may not be possible. Media for which jitterless transmission is supported and those for which it is not (only normal transmission is supported) are shown below:

- Jitterless transmission : DVD-A, SACD, CD, DTS-CD
- Normal transmission only : DVD-V, DVD-RW, VCD, MP3

Depending on the specifications of the sending device, it may not support jitterless transmission, even for those media for which it can be supported.

As to copyright protection, IEEE 1394 employs the DTCP (Digital Transmission Content Protection) system, which consists of the following:

1. Copy-control information
2. Authentication and key exchange
3. Encryption
4. System renewability

The procedures for copy protection are basically as follows: After authentication and key exchange for encryption/decryption, the sending device will send the data encrypted using the keys. The receiving device in turn will decipher the data using the exchanged keys.

- Media whose data can be encrypted: DVD-V, DVD-A, SACD, DVD-RW
- Media whose data cannot be encrypted: CD, DTS-CD, VCD, MP3

● IEEE 1394 Error Indications

No.	Message	Error Code	Cause and Actions to be taken	Remarks
1	WRITING CONFIG	E7	The Config ROM data are being written to flash memory. Do NOT turn off the power while this message is displayed. While this message is displayed, the Standby button on the main unit is disabled.	This message is displayed when a unit whose host board was replaced with a new one is turned on for the first time.
2	MODEL ID ERROR	CO	The MODEL ID stored in flash memory on the host board and that stored in the main unit do not match. Download the GUID again.	This error is generated when a host board for the wrong destination is mounted in the unit, and it will only be generated during servicing. The message will remain displayed until the error is corrected.
3	CONFIG ERROR	C1	The Config ROM data are erroneous. Download the GUID again.	This message is displayed when the power is turned off while the Config ROM data are being written. As this is generated while the unit is operated online, this error will only be generated during servicing. The message will remain displayed until the error is corrected.

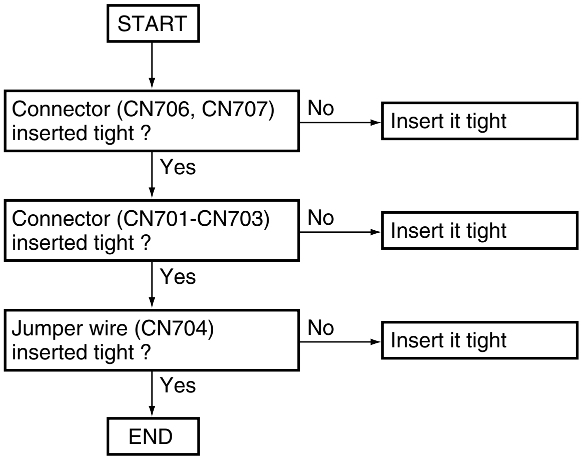
Note: If downloading of the GUID cannot be performed for corrective measures for messages 1 and 2, replace the host board with a new one.

7.1.5 TROUBLE SHOOTING OF THE DSP ASSY

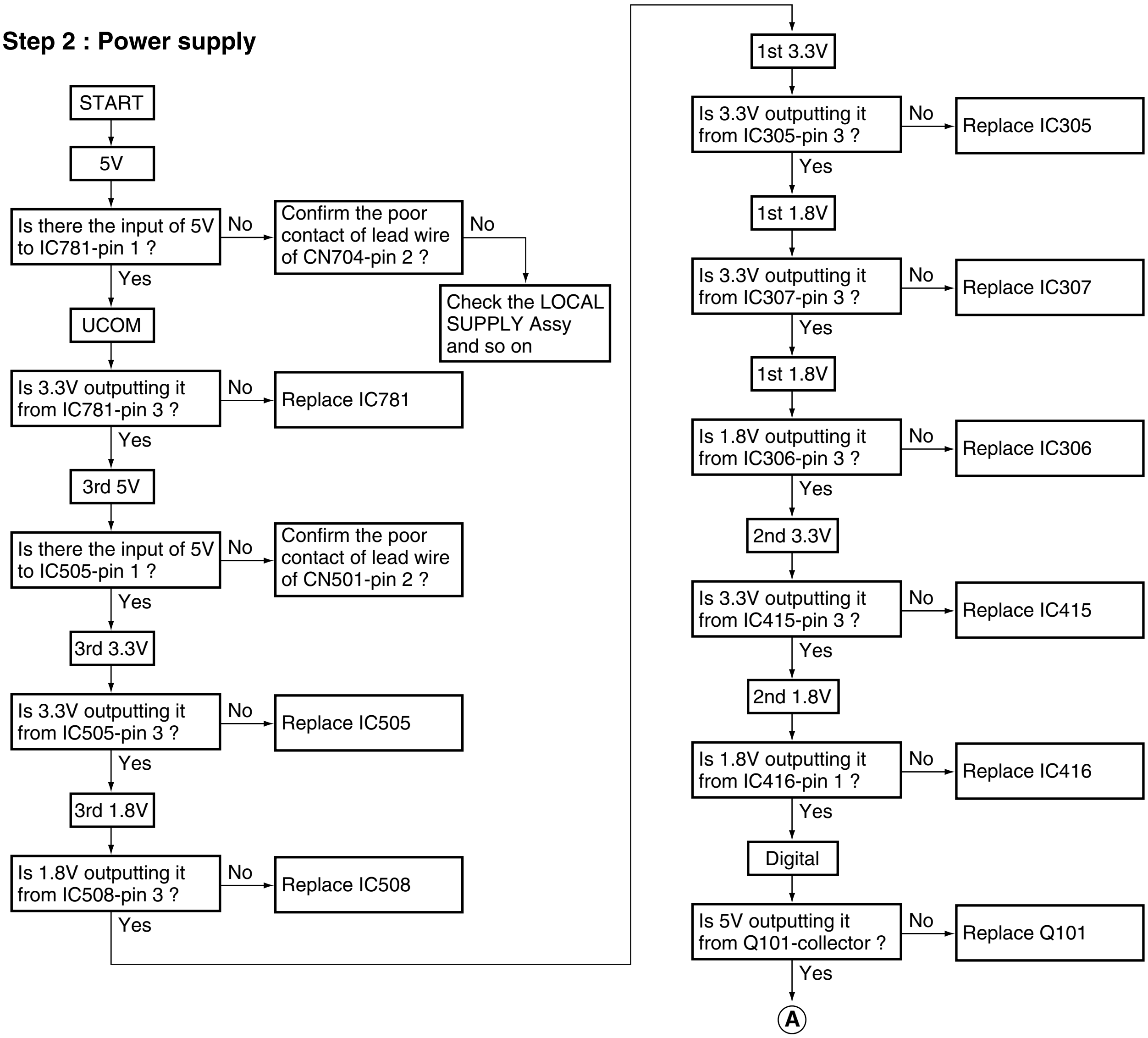
■ When a sound is not out in the surround mode with the digital signal input (SPDIF input)

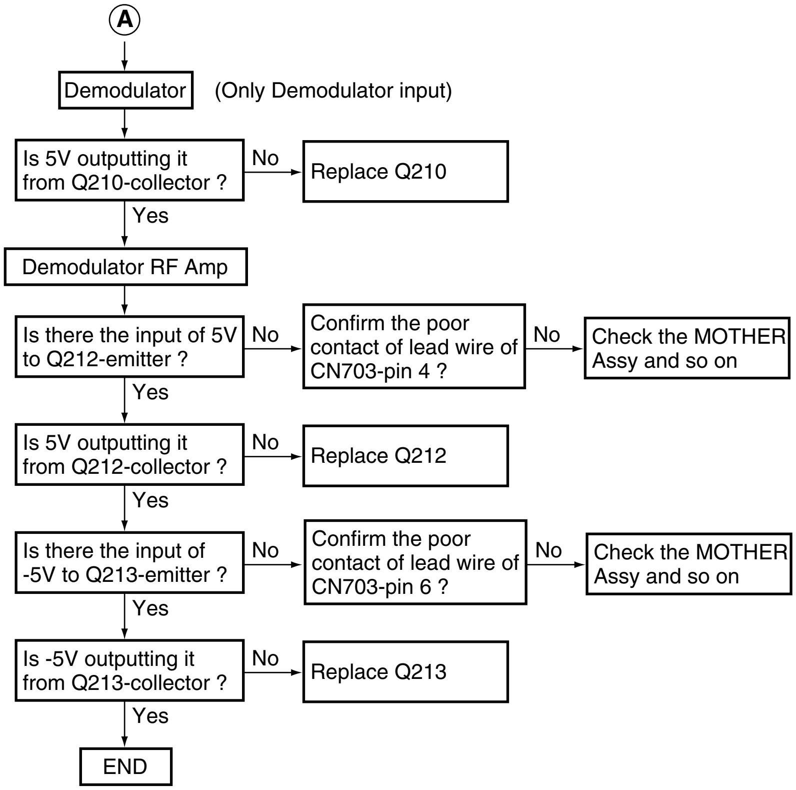
- Function: DVD/LD
- Suppose coils, capacitors and resistors to be poor contact and that is not damaged.

Step 1 : Connection

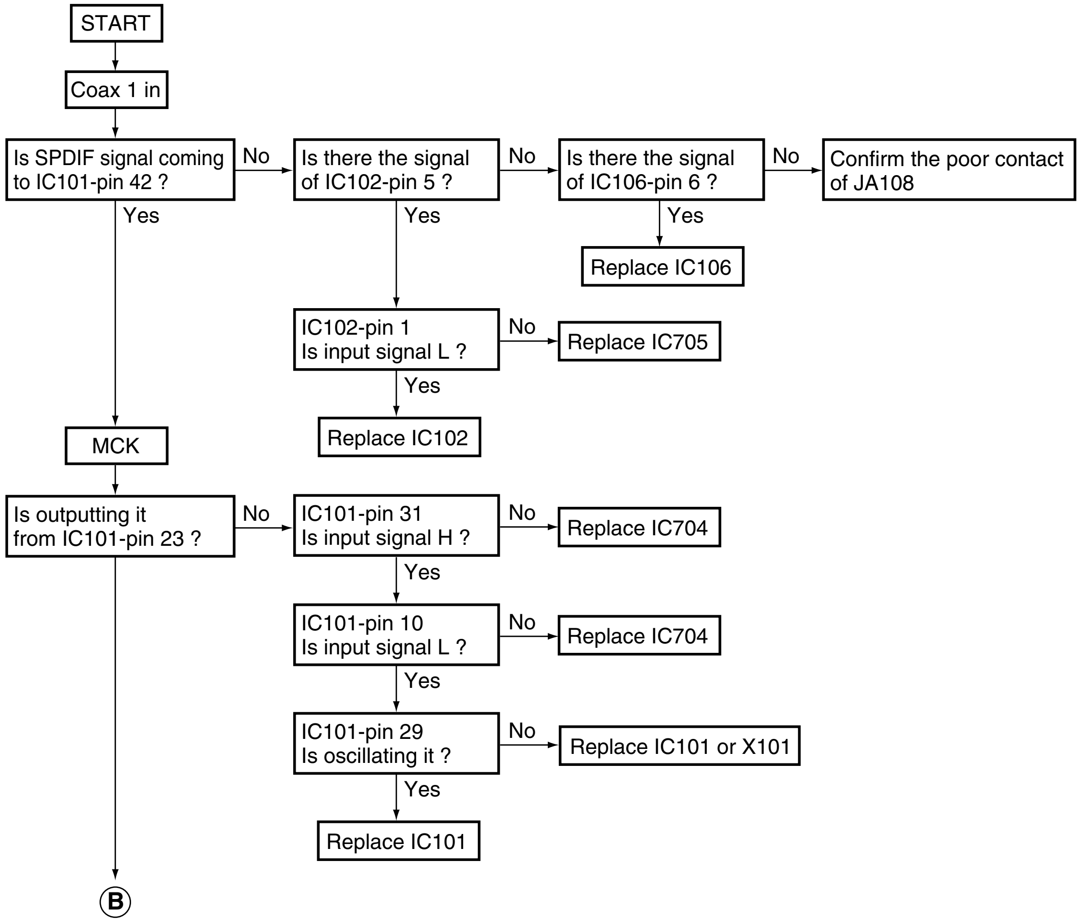

START
Connector (CN706, CN707) inserted tight ?
No
Insert it tight
Yes
Connector (CN701-CN703) inserted tight ?
No
Insert it tight
Yes
Jumper wire (CN704) inserted tight ?
No
Insert it tight
Yes
END

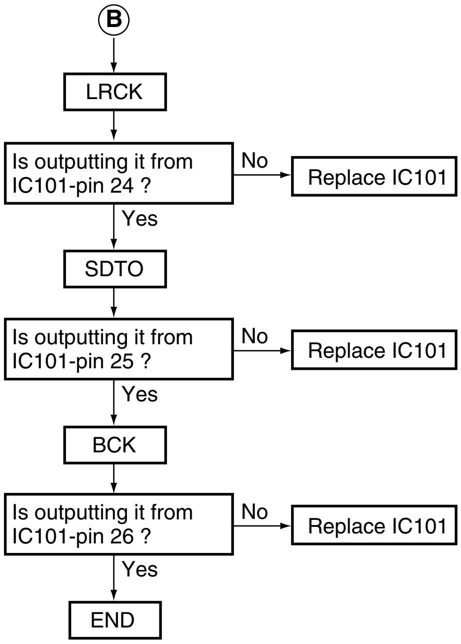
Step 2 : Power supply


START
5V
Is there the input of 5V to IC781-pin 1 ?
No
Confirm the poor contact of lead wire of CN704-pin 2 ?
No
Check the LOCAL SUPPLY Assy and so on
Yes
UCOM
Is 3.3V outputting it from IC781-pin 3 ?
No
Replace IC781
Yes
3rd 5V
Is there the input of 5V to IC505-pin 1 ?
No
Confirm the poor contact of lead wire of CN501-pin 2 ?
Yes
3rd 3.3V
Is 3.3V outputting it from IC505-pin 3 ?
No
Replace IC505
Yes
3rd 1.8V
Is 1.8V outputting it from IC508-pin 3 ?
No
Replace IC508
Yes
1st 3.3V
Is 3.3V outputting it from IC305-pin 3 ?
No
Replace IC305
Yes
1st 1.8V
Is 3.3V outputting it from IC307-pin 3 ?
No
Replace IC307
Yes
1st 1.8V
Is 1.8V outputting it from IC306-pin 3 ?
No
Replace IC306
Yes
2nd 3.3V
Is 3.3V outputting it from IC415-pin 3 ?
No
Replace IC415
Yes
2nd 1.8V
Is 1.8V outputting it from IC416-pin 1 ?
No
Replace IC416
Yes
Digital
Is 5V outputting it from Q101-collector ?
No
Replace Q101
Yes
A


A
Demodulator
(Only Demodulator input)
Is 5V outputting it from Q210-collector ?
No
Replace Q210
Yes
Demodulator RF Amp
Is there the input of 5V to Q212-emitter ?
No
Confirm the poor contact of lead wire of CN703-pin 4 ?
No
Check the MOTHER Assy and so on
Yes
Is 5V outputting it from Q212-collector ?
No
Replace Q212
Yes
Is there the input of -5V to Q213-emitter ?
No
Confirm the poor contact of lead wire of CN703-pin 6 ?
No
Check the MOTHER Assy and so on
Yes
Is -5V outputting it from Q213-collector ?
No
Replace Q213
Yes
END

Step 3 : DIR

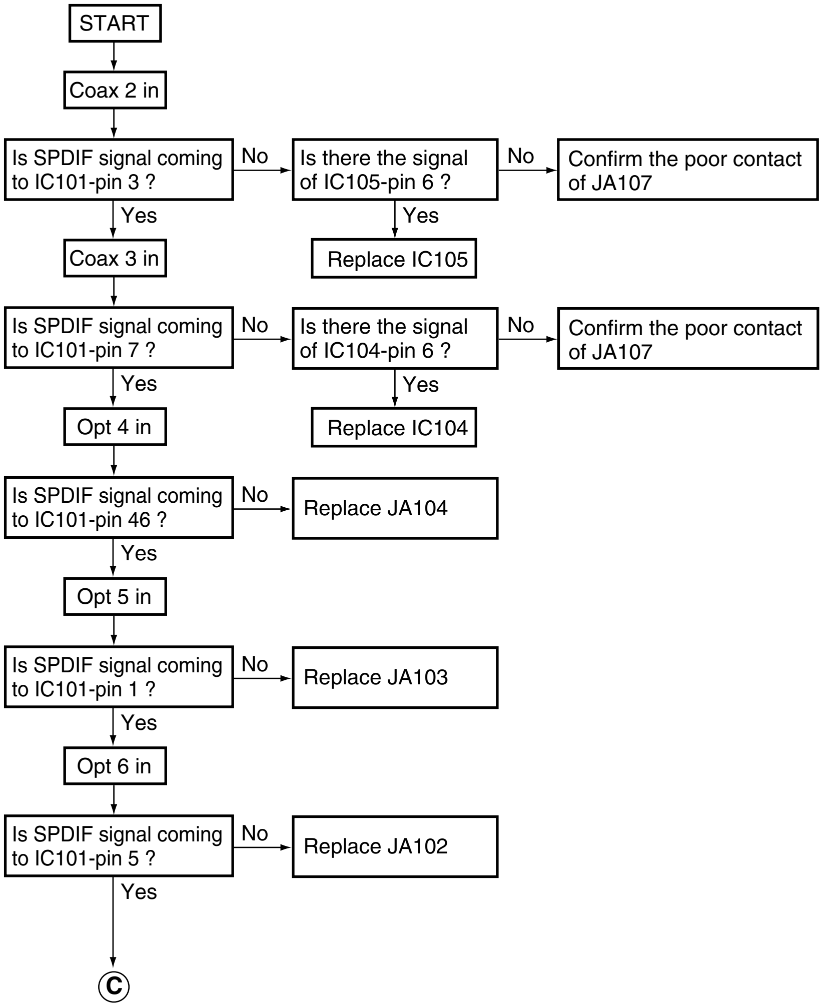

START
Coax 1 in
Is SPDIF signal coming to IC101-pin 42 ?
No
Is there the signal of IC102-pin 5 ?
No
Is there the signal of IC106-pin 6 ?
No
Confirm the poor contact of JA108
Yes
Replace IC106
Yes
IC102-pin 1 Is input signal L ?
No
Replace IC705
Yes
Replace IC102
Yes
MCK
Is outputting it from IC101-pin 23 ?
No
IC101-pin 31 Is input signal H ?
No
Replace IC704
Yes
IC101-pin 10 Is input signal L ?
No
Replace IC704
Yes
IC101-pin 29 Is oscillating it ?
No
Replace IC101 or X101
Yes
Replace IC101
B

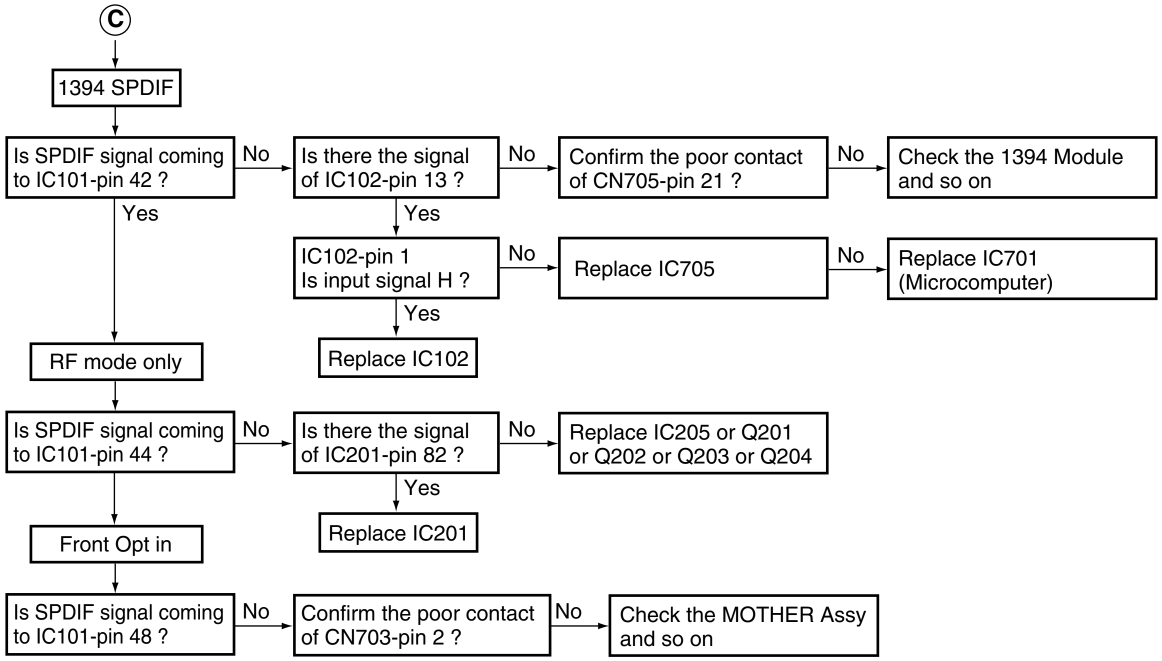

B
LRCK
Is outputting it from IC101-pin 24 ?
No
Replace IC101
Yes
SDTO
Is outputting it from IC101-pin 25 ?
No
Replace IC101
Yes
BCK
Is outputting it from IC101-pin 26 ?
No
Replace IC101
Yes
END

Go to another step by input format afterward.

Step 3' : DIR

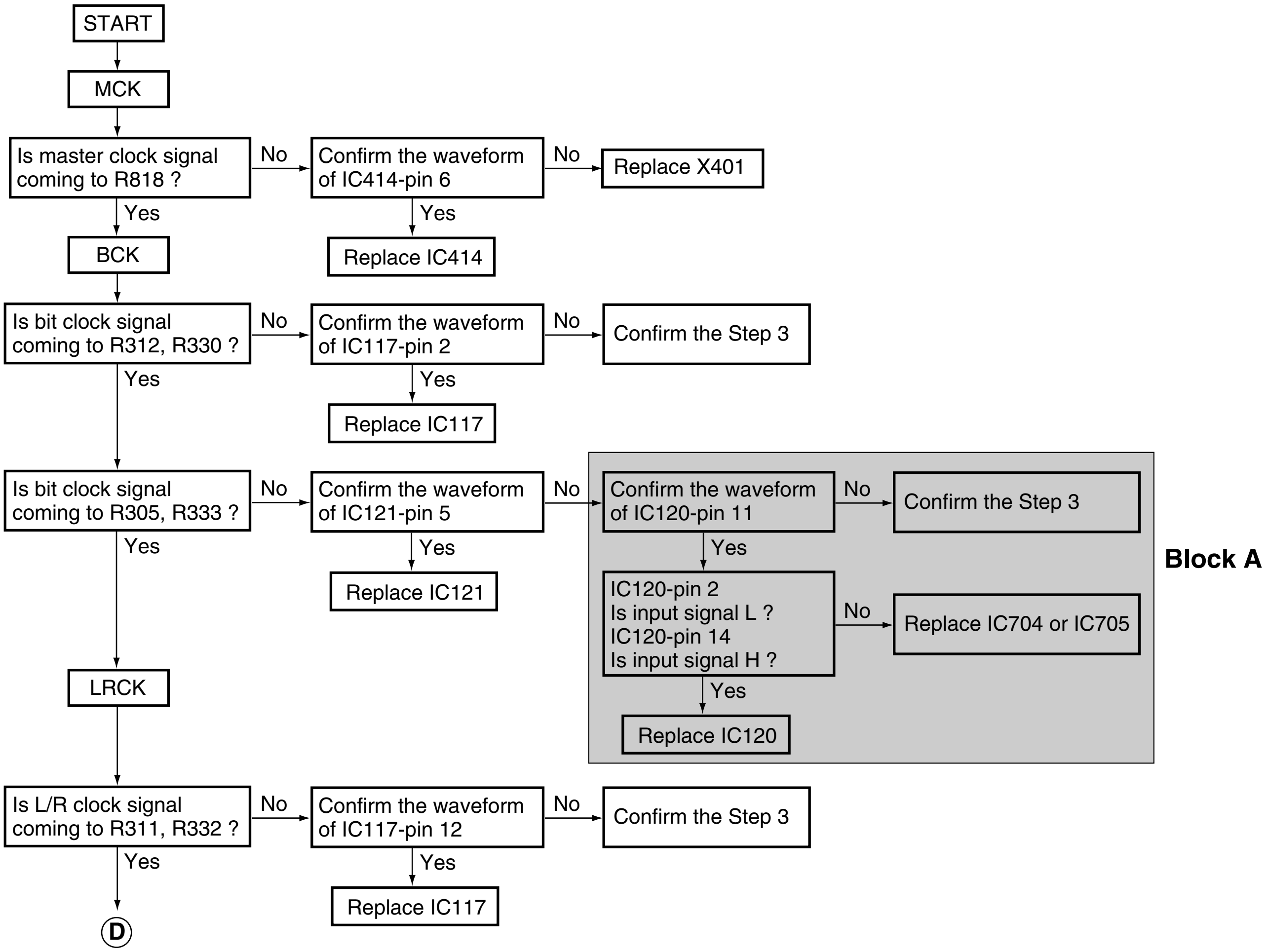
- Function: except DVD/LD

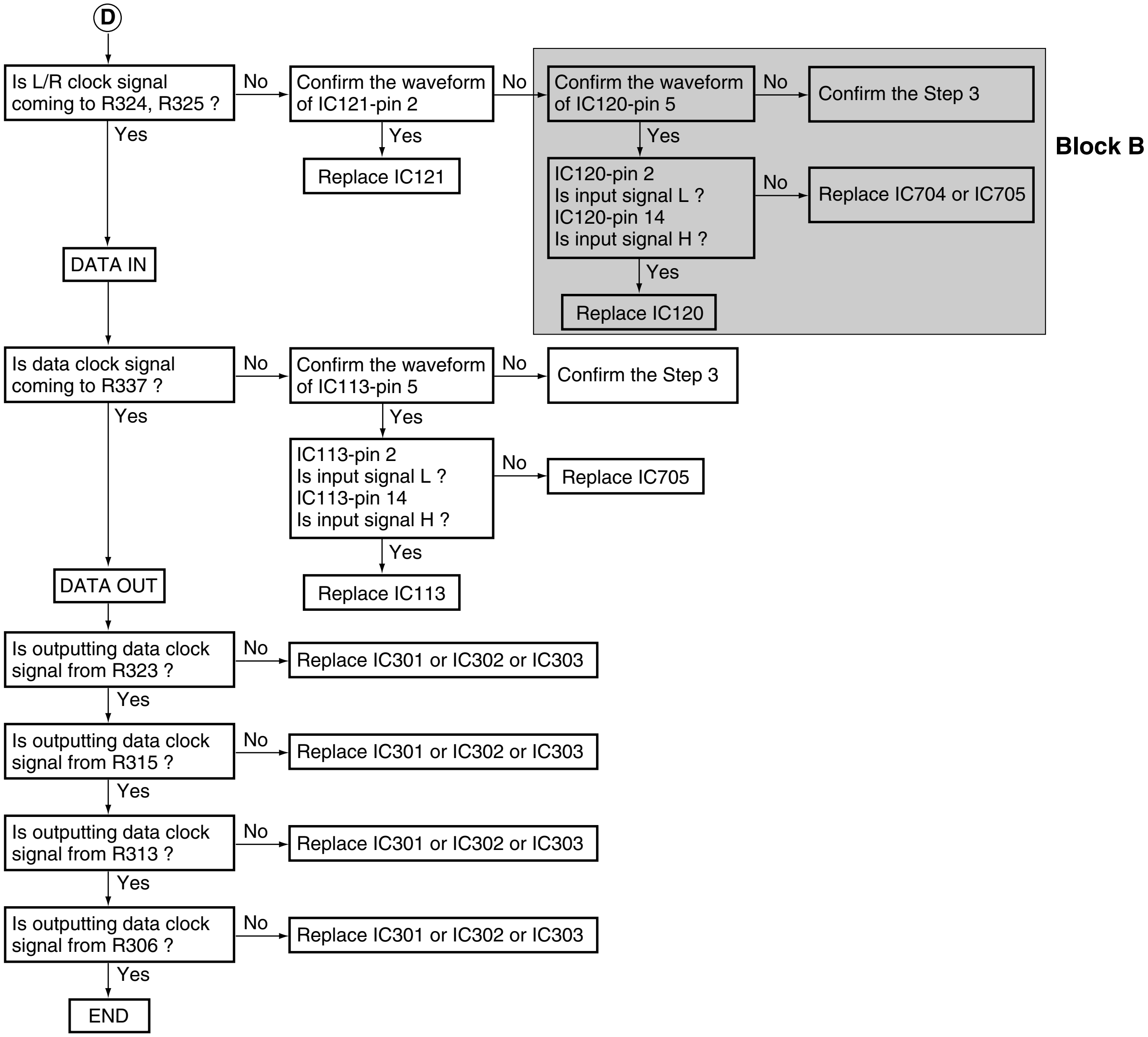

START
Coax 2 in
Is SPDIF signal coming to IC101-pin 3 ?
No
Is there the signal of IC105-pin 6 ?
No
Confirm the poor contact of JA107
Yes
Replace IC105
Yes
Coax 3 in
Is SPDIF signal coming to IC101-pin 7 ?
No
Is there the signal of IC104-pin 6 ?
No
Confirm the poor contact of JA107
Yes
Replace IC104
Yes
Opt 4 in
Is SPDIF signal coming to IC101-pin 46 ?
No
Replace JA104
Yes
Opt 5 in
Is SPDIF signal coming to IC101-pin 1 ?
No
Replace JA103
Yes
Opt 6 in
Is SPDIF signal coming to IC101-pin 5 ?
No
Replace JA102
Yes
C


C
1394 SPDIF
Is SPDIF signal coming to IC101-pin 42 ?
No
Is there the signal of IC102-pin 13 ?
No
Confirm the poor contact of CN705-pin 21 ?
No
Check the 1394 Module and so on
Yes
Yes
IC102-pin 1
Is input signal H ?
No
Replace IC705
No
Replace IC701 (Microcomputer)
Yes
Replace IC102
RF mode only
Is SPDIF signal coming to IC101-pin 44 ?
No
Is there the signal of IC201-pin 82 ?
No
Replace IC205 or Q201 or Q202 or Q203 or Q204
Yes
Replace IC201
Front Opt in
Is SPDIF signal coming to IC101-pin 48 ?
No
Confirm the poor contact of CN703-pin 2 ?
No
Check the MOTHER Assy and so on

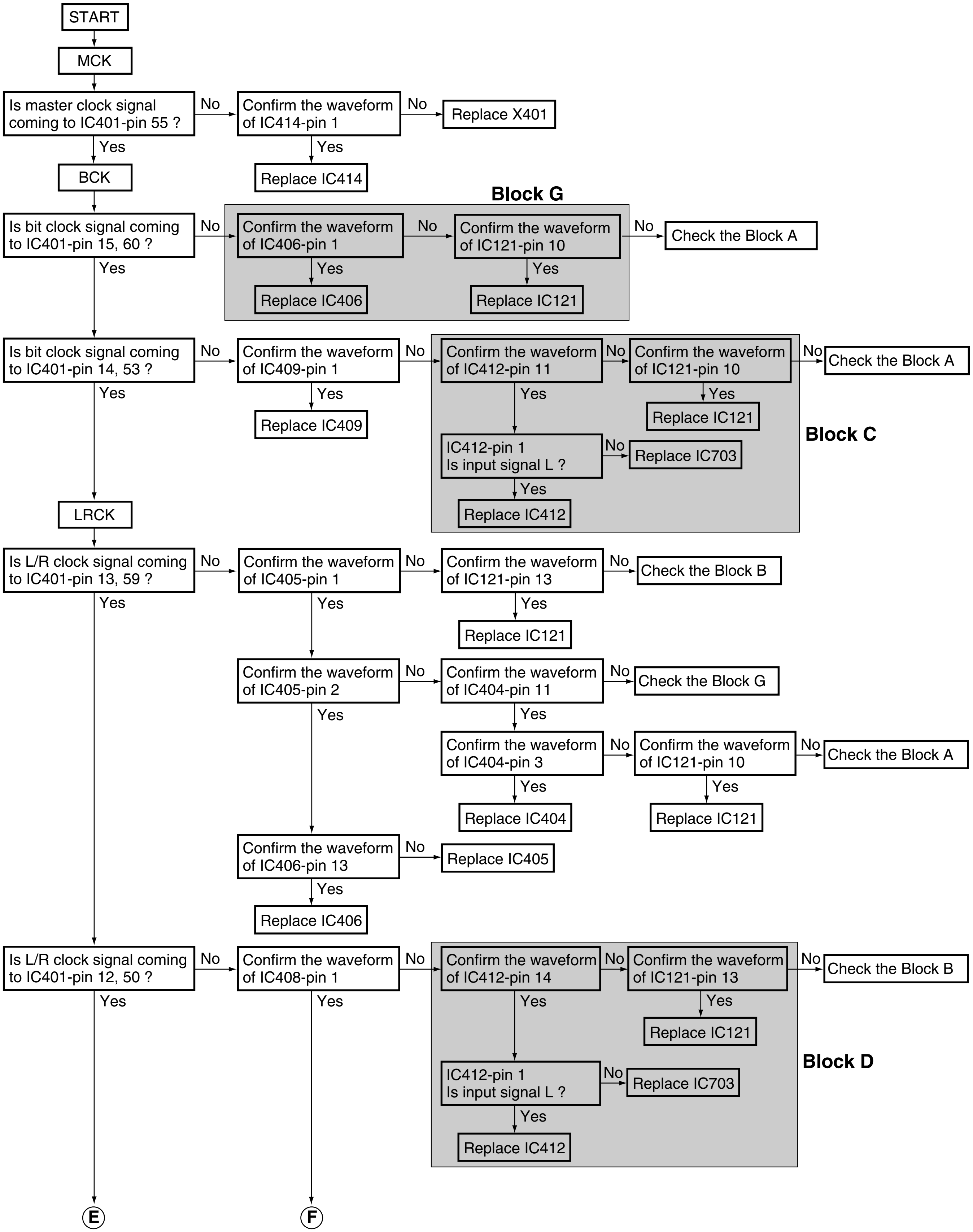
■ When a sound is not out in the surround mode with the digital signal input (Dolby Digital input)

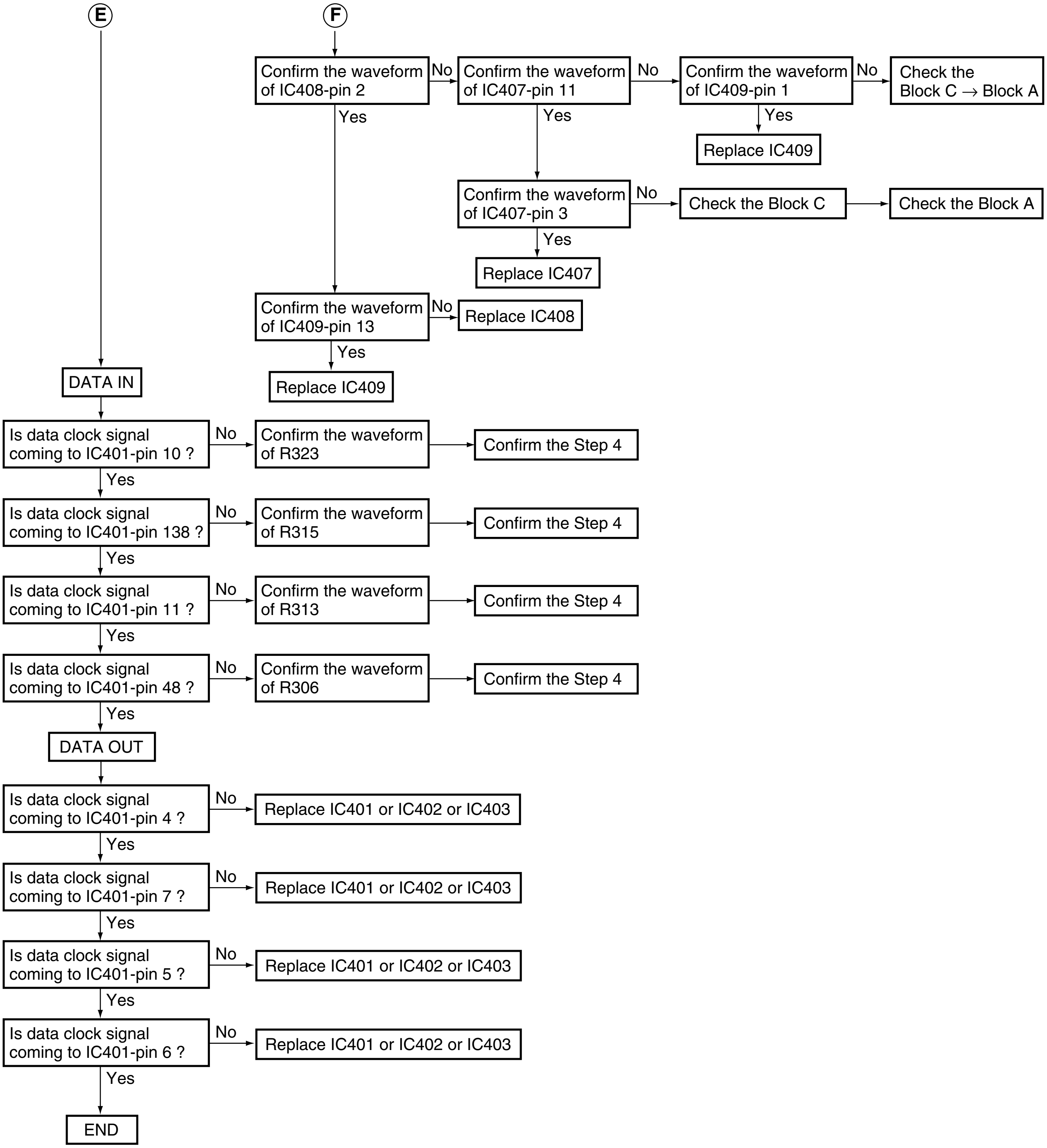
Step 4 : 1st DSP


START
MCK
Is master clock signal coming to R818 ?
No
Confirm the waveform of IC414-pin 6
No
Replace X401
Yes
Yes
BCK
Replace IC414
Is bit clock signal coming to R312, R330 ?
No
Confirm the waveform of IC117-pin 2
No
Confirm the Step 3
Yes
Yes
Replace IC117
Is bit clock signal coming to R305, R333 ?
No
Confirm the waveform of IC121-pin 5
No
Confirm the waveform of IC120-pin 11
No
Confirm the Step 3
Yes
Yes
Yes
Block A
Replace IC121
IC120-pin 2
Is input signal L ?
IC120-pin 14
Is input signal H ?
No
Replace IC704 or IC705
Yes
Replace IC120
LRCK
Is L/R clock signal coming to R311, R332 ?
No
Confirm the waveform of IC117-pin 12
No
Confirm the Step 3
Yes
Yes
Replace IC117
D

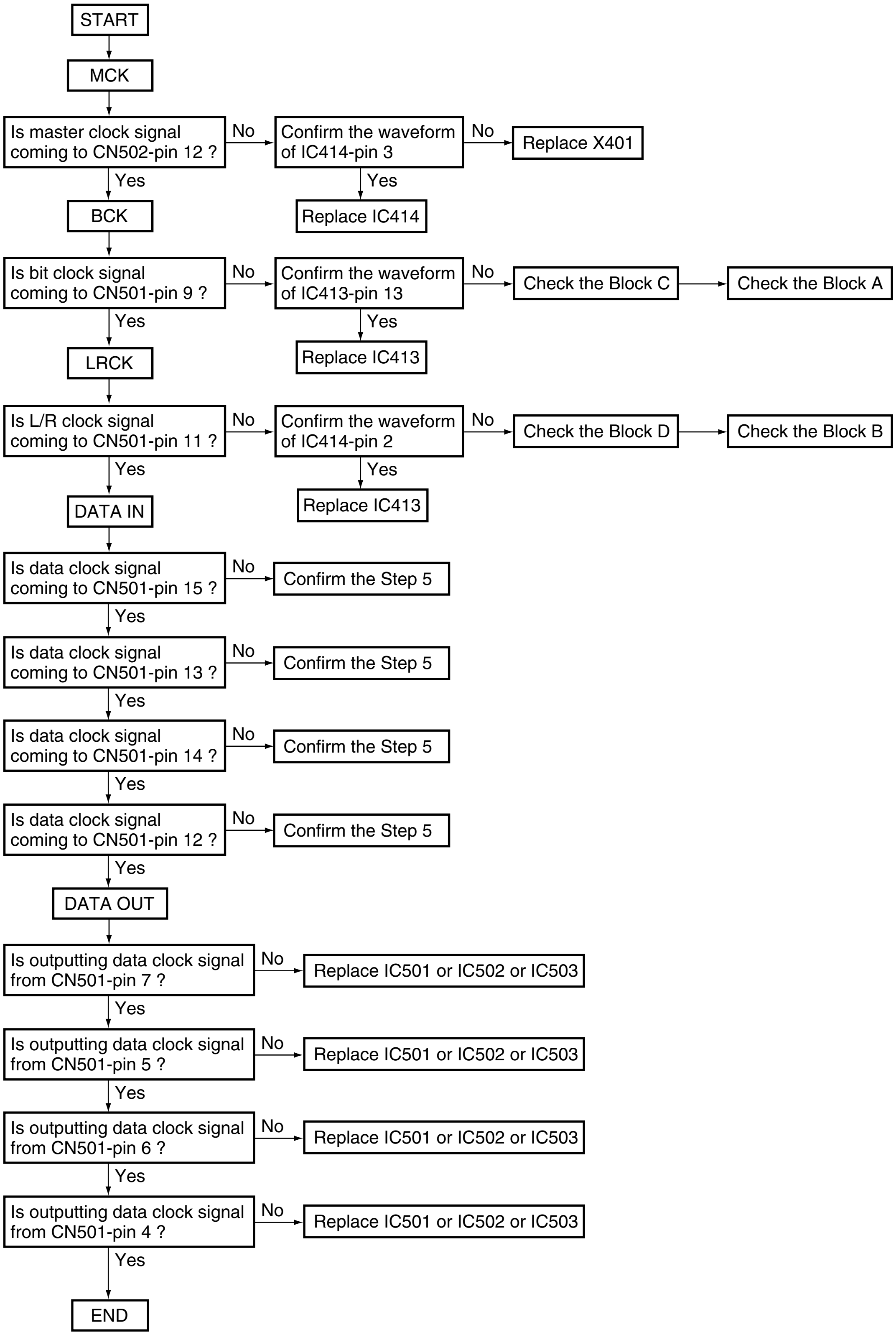

D
Is L/R clock signal coming to R324, R325 ?
No
Confirm the waveform of IC121-pin 2
Yes
Replace IC121
No
Confirm the waveform of IC120-pin 5
No
Confirm the Step 3
Yes
IC120-pin 2
Is input signal L ?
IC120-pin 14
Is input signal H ?
No
Replace IC704 or IC705
Yes
Replace IC120
Block B
Yes
DATA IN
Is data clock signal coming to R337 ?
No
Confirm the waveform of IC113-pin 5
No
Confirm the Step 3
Yes
IC113-pin 2
Is input signal L ?
IC113-pin 14
Is input signal H ?
No
Replace IC705
Yes
Replace IC113
Yes
DATA OUT
Is outputting data clock signal from R323 ?
No
Replace IC301 or IC302 or IC303
Yes
Is outputting data clock signal from R315 ?
No
Replace IC301 or IC302 or IC303
Yes
Is outputting data clock signal from R313 ?
No
Replace IC301 or IC302 or IC303
Yes
Is outputting data clock signal from R306 ?
No
Replace IC301 or IC302 or IC303
Yes
END

Step 5 : 2nd DSP

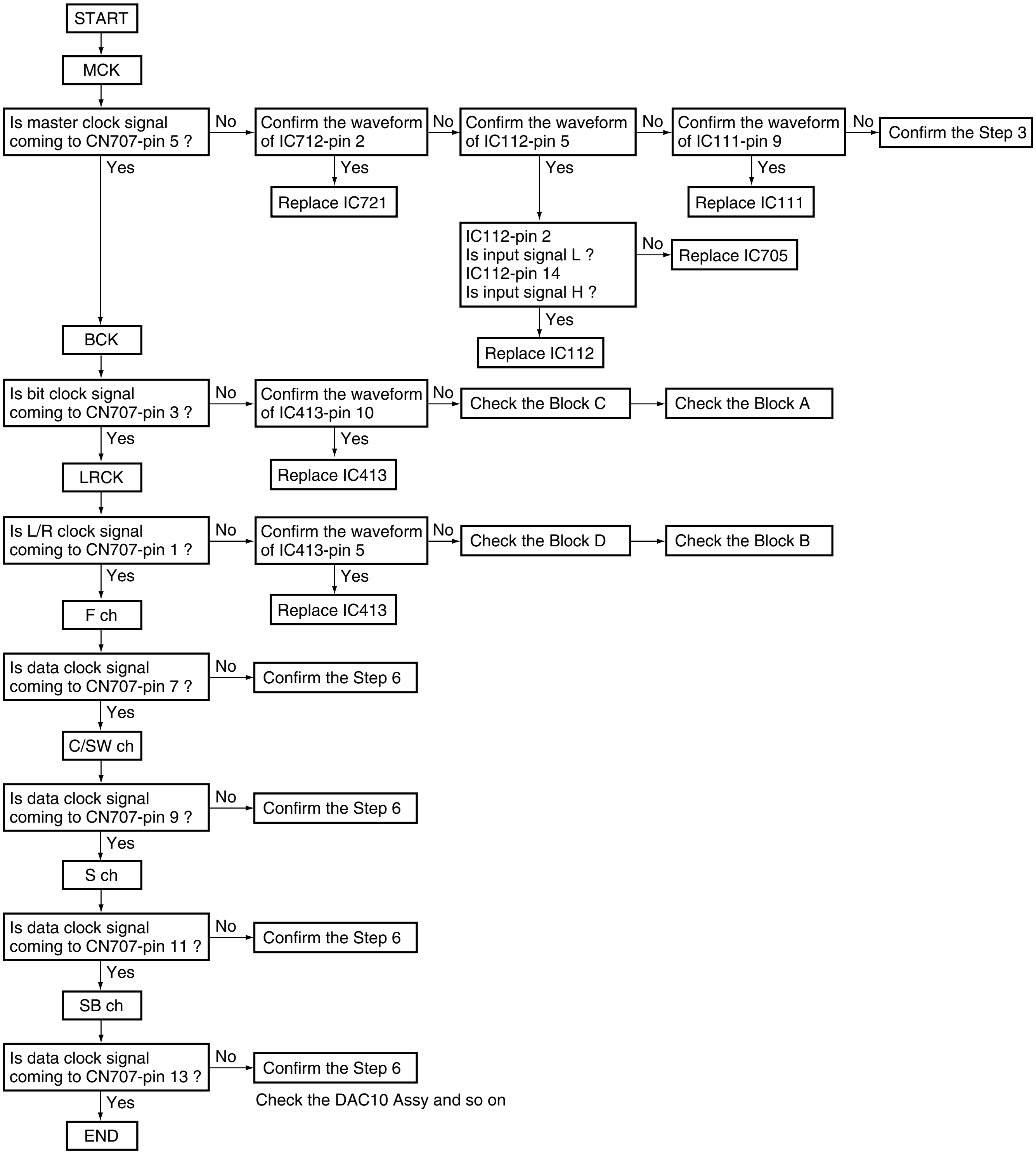

START
MCK
Is master clock signal coming to IC401-pin 55 ?
No
Confirm the waveform of IC414-pin 1
No
Replace X401
Yes
Replace IC414
Yes
BCK
Block G
Is bit clock signal coming to IC401-pin 15, 60 ?
No
Confirm the waveform of IC406-pin 1
No
Confirm the waveform of IC121-pin 10
No
Check the Block A
Yes
Replace IC406
Yes
Replace IC121
Yes
Is bit clock signal coming to IC401-pin 14, 53 ?
No
Confirm the waveform of IC409-pin 1
No
Confirm the waveform of IC412-pin 11
No
Confirm the waveform of IC121-pin 10
No
Check the Block A
Yes
Replace IC409
Yes
Yes
Replace IC121
Block C
IC412-pin 1 Is input signal L ?
No
Replace IC703
Yes
Replace IC412
Yes
LRCK
Is L/R clock signal coming to IC401-pin 13, 59 ?
No
Confirm the waveform of IC405-pin 1
No
Confirm the waveform of IC121-pin 13
No
Check the Block B
Yes
Yes
Yes
Replace IC121
Confirm the waveform of IC405-pin 2
No
Confirm the waveform of IC404-pin 11
No
Check the Block G
Yes
Yes
Confirm the waveform of IC404-pin 3
No
Confirm the waveform of IC121-pin 10
No
Check the Block A
Yes
Replace IC404
Yes
Replace IC121
Confirm the waveform of IC406-pin 13
No
Replace IC405
Yes
Replace IC406
Is L/R clock signal coming to IC401-pin 12, 50 ?
No
Confirm the waveform of IC408-pin 1
No
Confirm the waveform of IC412-pin 14
No
Confirm the waveform of IC121-pin 13
No
Check the Block B
Yes
Yes
Yes
Yes
Replace IC121
Block D
IC412-pin 1 Is input signal L ?
No
Replace IC703
Yes
Replace IC412
E
F


E
F
Confirm the waveform of IC408-pin 2
No
Confirm the waveform of IC407-pin 11
No
Confirm the waveform of IC409-pin 1
No
Check the Block C → Block A
Yes
Yes
Yes
Replace IC409
Confirm the waveform of IC407-pin 3
No
Check the Block C
Check the Block A
Yes
Replace IC407
Confirm the waveform of IC409-pin 13
No
Replace IC408
Yes
Replace IC409
DATA IN
Is data clock signal coming to IC401-pin 10 ?
No
Confirm the waveform of R323
Confirm the Step 4
Yes
Is data clock signal coming to IC401-pin 138 ?
No
Confirm the waveform of R315
Confirm the Step 4
Yes
Is data clock signal coming to IC401-pin 11 ?
No
Confirm the waveform of R313
Confirm the Step 4
Yes
Is data clock signal coming to IC401-pin 48 ?
No
Confirm the waveform of R306
Confirm the Step 4
Yes
DATA OUT
Is data clock signal coming to IC401-pin 4 ?
No
Replace IC401 or IC402 or IC403
Yes
Is data clock signal coming to IC401-pin 7 ?
No
Replace IC401 or IC402 or IC403
Yes
Is data clock signal coming to IC401-pin 5 ?
No
Replace IC401 or IC402 or IC403
Yes
Is data clock signal coming to IC401-pin 6 ?
No
Replace IC401 or IC402 or IC403
Yes
END

Step 6 : 3rd DSP

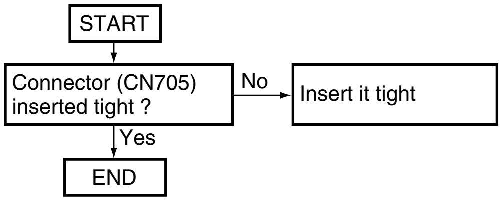

START
MCK
Is master clock signal coming to CN502-pin 12 ?
No
Confirm the waveform of IC414-pin 3
No
Replace X401
Yes
Replace IC414
Yes
BCK
Is bit clock signal coming to CN501-pin 9 ?
No
Confirm the waveform of IC413-pin 13
No
Check the Block C
Check the Block A
Yes
Replace IC413
Yes
LRCK
Is L/R clock signal coming to CN501-pin 11 ?
No
Confirm the waveform of IC414-pin 2
No
Check the Block D
Check the Block B
Yes
Replace IC413
Yes
DATA IN
Is data clock signal coming to CN501-pin 15 ?
No
Confirm the Step 5
Yes
Is data clock signal coming to CN501-pin 13 ?
No
Confirm the Step 5
Yes
Is data clock signal coming to CN501-pin 14 ?
No
Confirm the Step 5
Yes
Is data clock signal coming to CN501-pin 12 ?
No
Confirm the Step 5
Yes
DATA OUT
Is outputting data clock signal from CN501-pin 7 ?
No
Replace IC501 or IC502 or IC503
Yes
Is outputting data clock signal from CN501-pin 5 ?
No
Replace IC501 or IC502 or IC503
Yes
Is outputting data clock signal from CN501-pin 6 ?
No
Replace IC501 or IC502 or IC503
Yes
Is outputting data clock signal from CN501-pin 4 ?
No
Replace IC501 or IC502 or IC503
Yes
END

Step 7 : to DAC

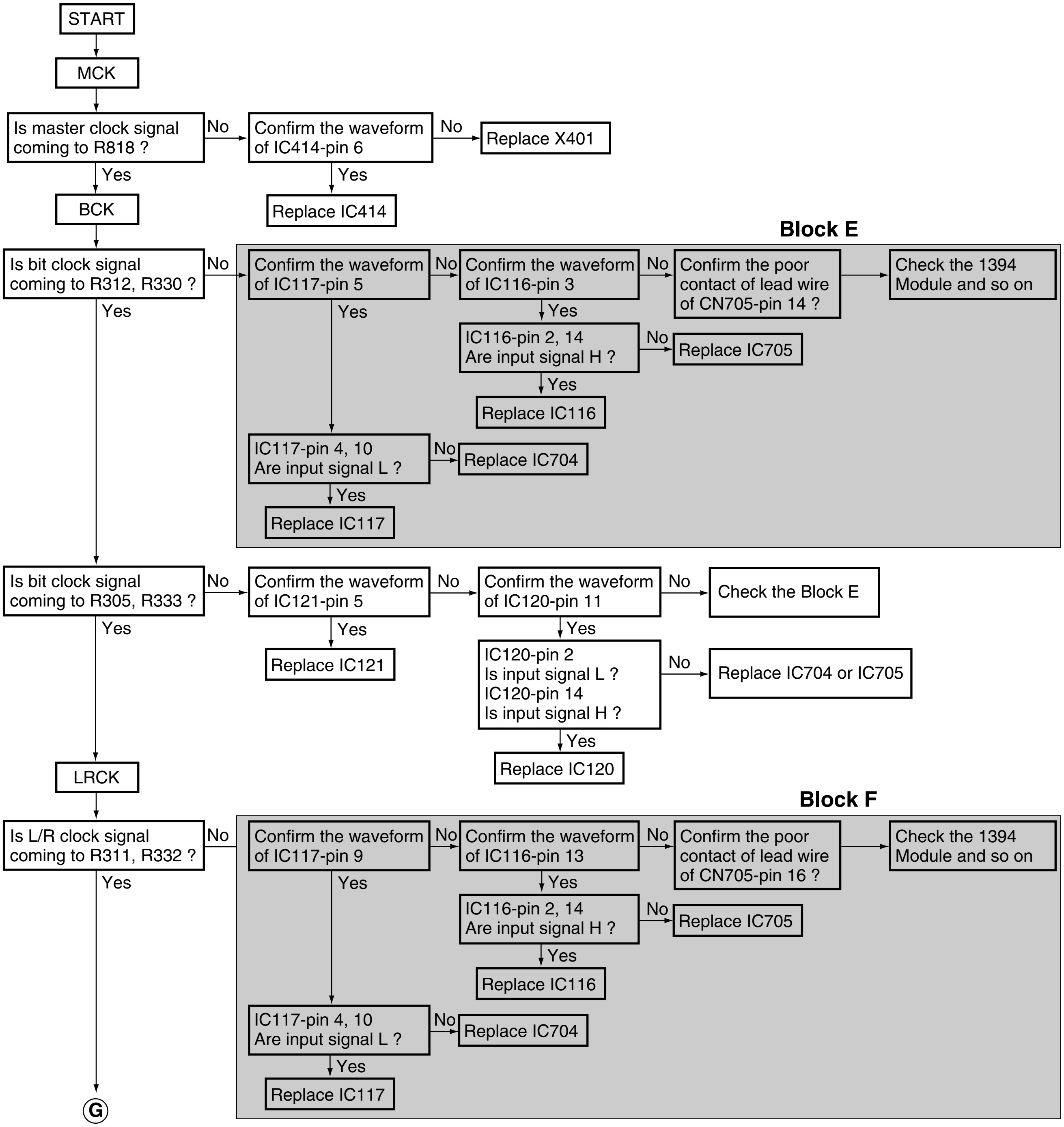

START
MCK
Is master clock signal coming to CN707-pin 5 ?
No
Confirm the waveform of IC712-pin 2
No
Confirm the waveform of IC112-pin 5
No
Confirm the waveform of IC111-pin 9
No
Confirm the Step 3
Yes
Replace IC721
Yes
Yes
Replace IC111
IC112-pin 2
Is input signal L ?
IC112-pin 14
Is input signal H ?
No
Replace IC705
Yes
Replace IC112
Yes
BCK
Is bit clock signal coming to CN707-pin 3 ?
No
Confirm the waveform of IC413-pin 10
No
Check the Block C
Check the Block A
Yes
Replace IC413
Yes
LRCK
Is L/R clock signal coming to CN707-pin 1 ?
No
Confirm the waveform of IC413-pin 5
No
Check the Block D
Check the Block B
Yes
Replace IC413
Yes
F ch
Is data clock signal coming to CN707-pin 7 ?
No
Confirm the Step 6
Yes
C/SW ch
Is data clock signal coming to CN707-pin 9 ?
No
Confirm the Step 6
Yes
S ch
Is data clock signal coming to CN707-pin 11 ?
No
Confirm the Step 6
Yes
SB ch
Is data clock signal coming to CN707-pin 13 ?
No
Confirm the Step 6
Check the DAC10 Assy and so on
Yes
END

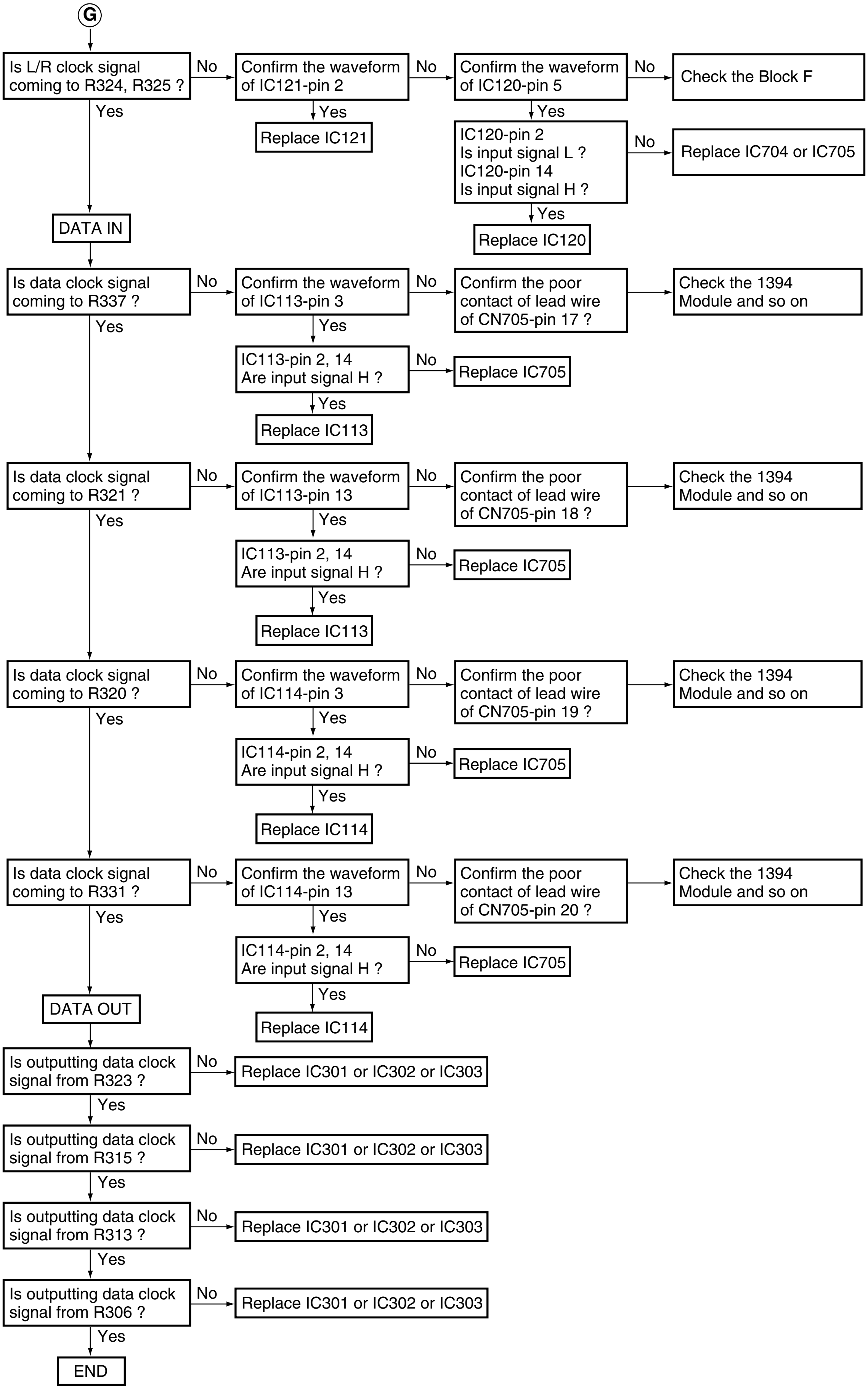
■ When a sound is not out in the surround mode with the digital signal input (DVD-Audio or SACD input → i-Link Connect)

Step 4 : Connection

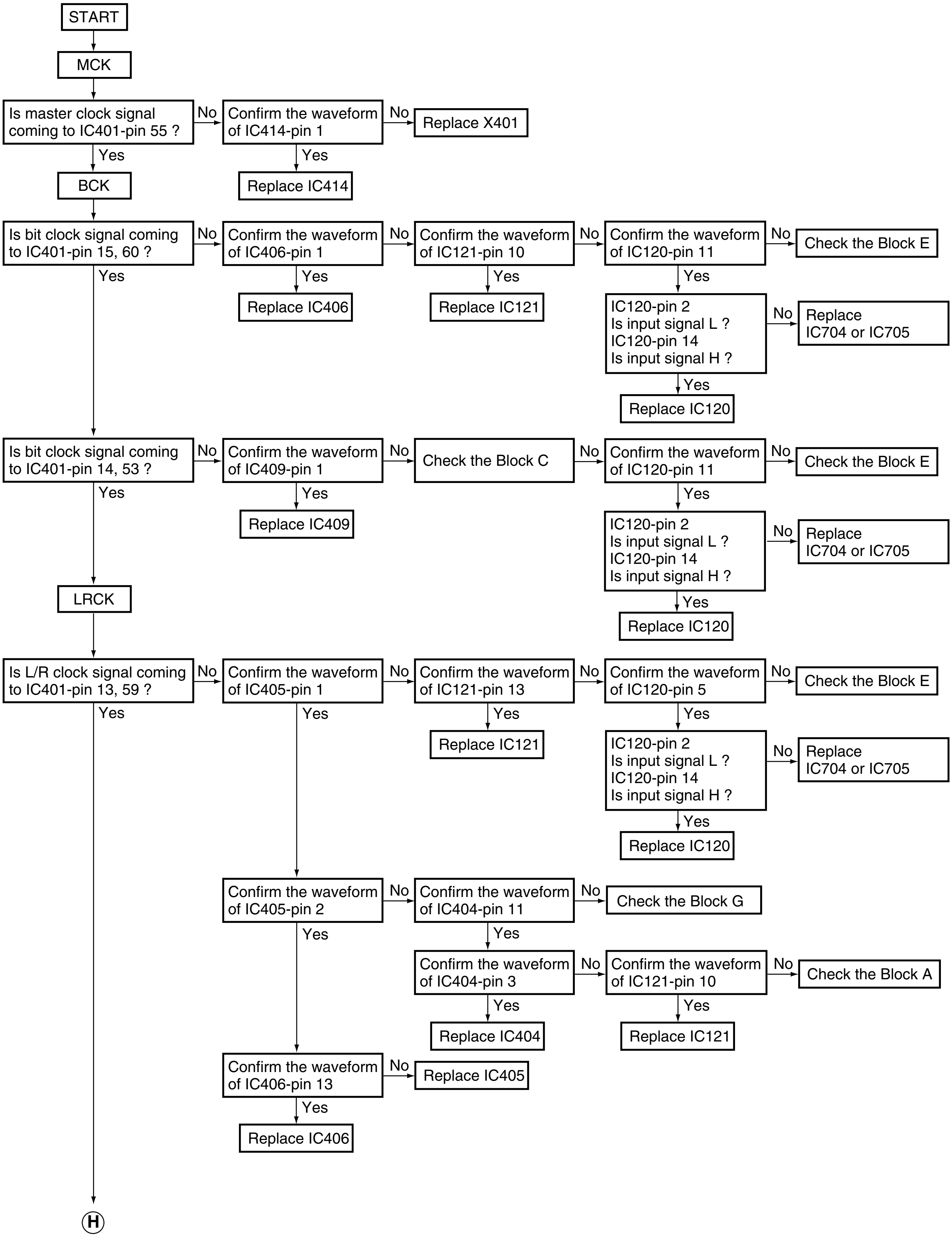

START
Connector (CN705) inserted tight ?
No
Insert it tight
Yes
END

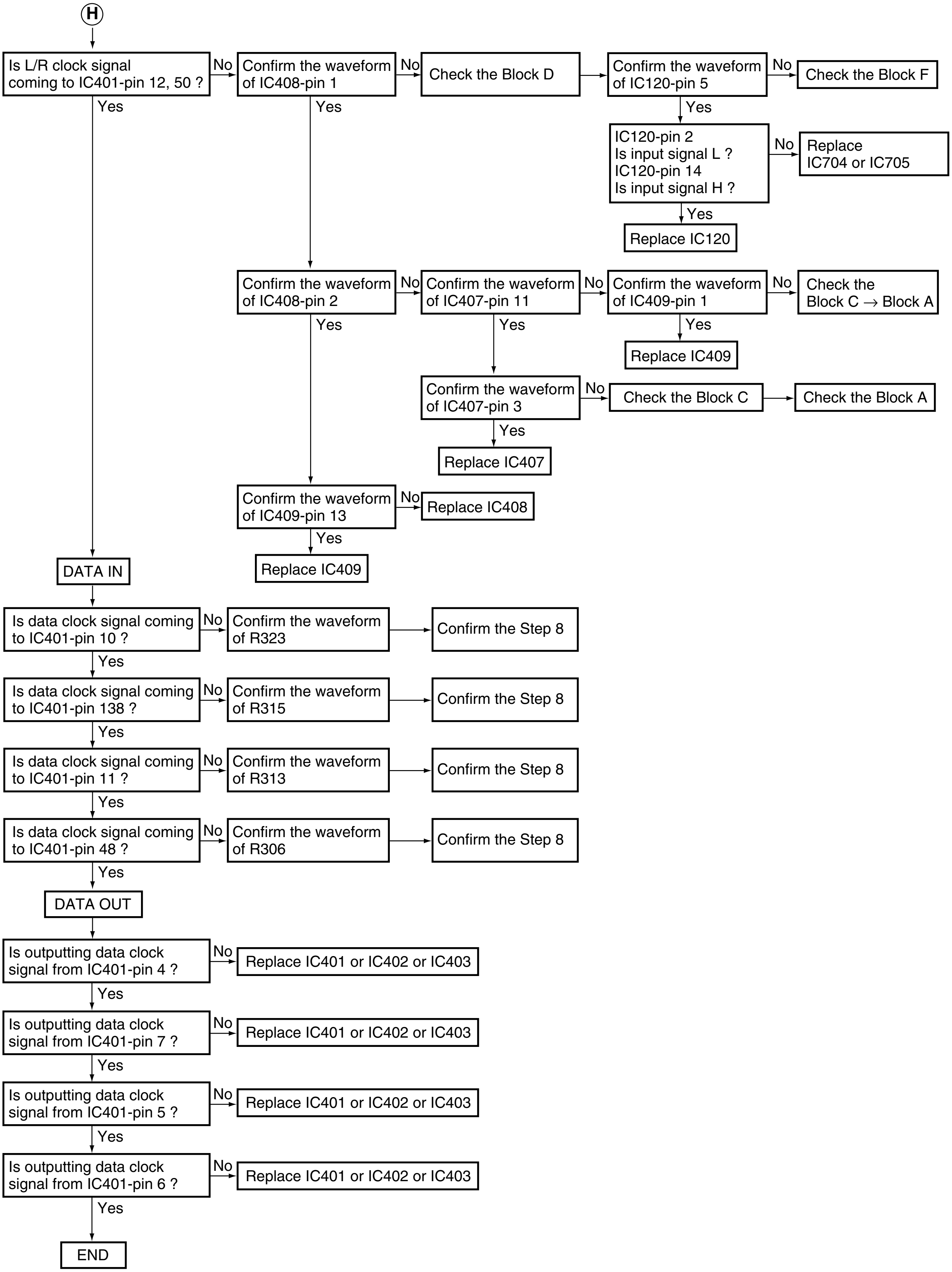
Step 5 : 1st DSP


START
MCK
Is master clock signal coming to R818 ?
No
Confirm the waveform of IC414-pin 6
No
Replace X401
Yes
Replace IC414
Yes
BCK
Block E
Is bit clock signal coming to R312, R330 ?
No
Confirm the waveform of IC117-pin 5
No
Confirm the waveform of IC116-pin 3
No
Confirm the poor contact of lead wire of CN705-pin 14 ?
Check the 1394 Module and so on
Yes
IC116-pin 2, 14 Are input signal H ?
No
Replace IC705
Yes
Replace IC116
Yes
IC117-pin 4, 10 Are input signal L ?
No
Replace IC704
Yes
Replace IC117
Yes
Is bit clock signal coming to R305, R333 ?
No
Confirm the waveform of IC121-pin 5
No
Confirm the waveform of IC120-pin 11
No
Check the Block E
Yes
Replace IC121
Yes
IC120-pin 2 Is input signal L ? IC120-pin 14 Is input signal H ?
No
Replace IC704 or IC705
Yes
Replace IC120
Yes
LRCK
Block F
Is L/R clock signal coming to R311, R332 ?
No
Confirm the waveform of IC117-pin 9
No
Confirm the waveform of IC116-pin 13
No
Confirm the poor contact of lead wire of CN705-pin 16 ?
Check the 1394 Module and so on
Yes
IC116-pin 2, 14 Are input signal H ?
No
Replace IC705
Yes
Replace IC116
Yes
IC117-pin 4, 10 Are input signal L ?
No
Replace IC704
Yes
Replace IC117
Yes
G

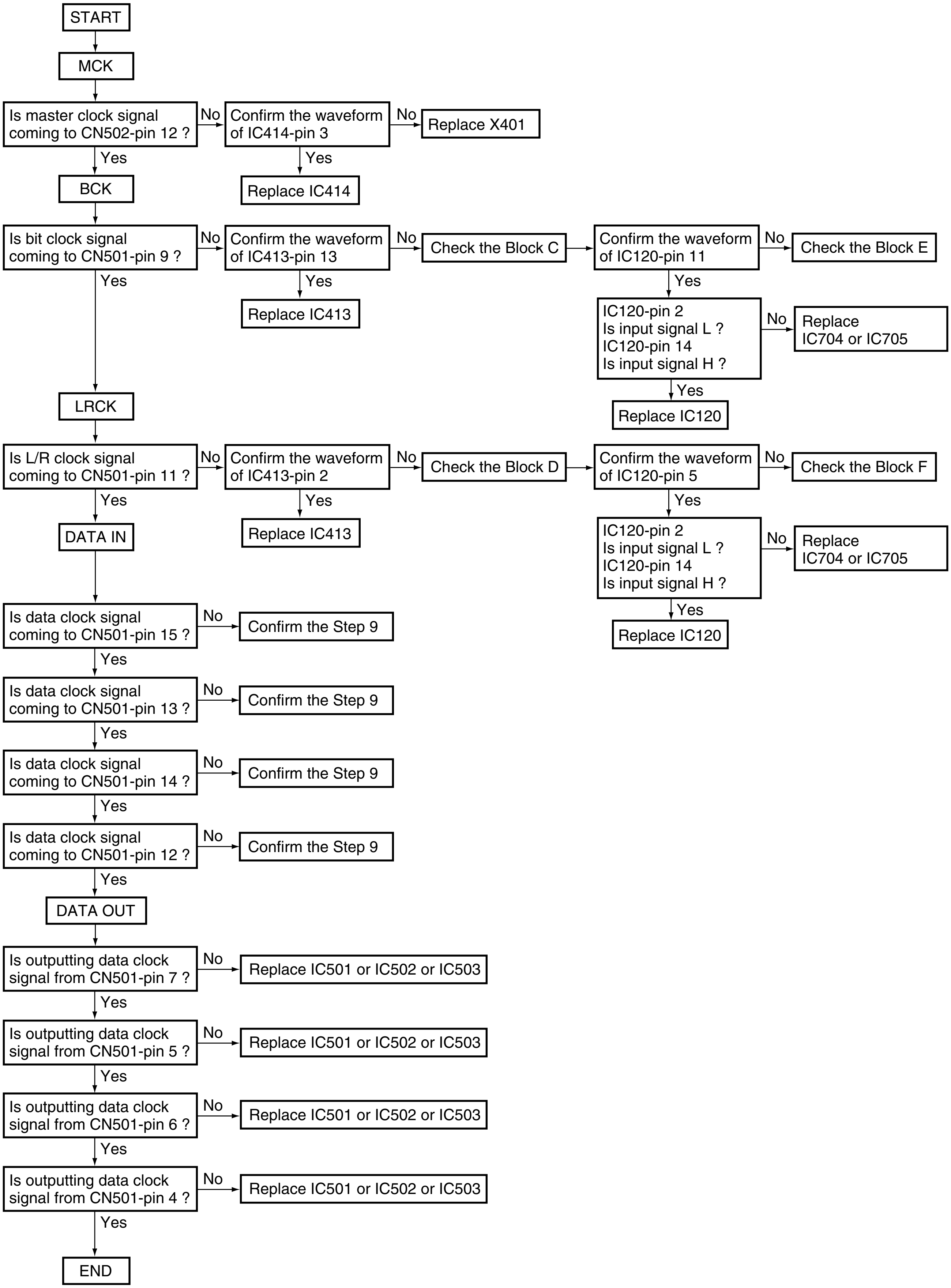

G
Is L/R clock signal coming to R324, R325 ?
No
Confirm the waveform of IC121-pin 2
No
Confirm the waveform of IC120-pin 5
No
Check the Block F
Yes
Replace IC121
Yes
IC120-pin 2 Is input signal L ? IC120-pin 14 Is input signal H ?
No
Replace IC704 or IC705
Yes
Replace IC120
Yes
DATA IN
Is data clock signal coming to R337 ?
No
Confirm the waveform of IC113-pin 3
No
Confirm the poor contact of lead wire of CN705-pin 17 ?
Check the 1394 Module and so on
Yes
IC113-pin 2, 14 Are input signal H ?
No
Replace IC705
Yes
Replace IC113
Yes
Is data clock signal coming to R321 ?
No
Confirm the waveform of IC113-pin 13
No
Confirm the poor contact of lead wire of CN705-pin 18 ?
Check the 1394 Module and so on
Yes
IC113-pin 2, 14 Are input signal H ?
No
Replace IC705
Yes
Replace IC113
Yes
Is data clock signal coming to R320 ?
No
Confirm the waveform of IC114-pin 3
No
Confirm the poor contact of lead wire of CN705-pin 19 ?
Check the 1394 Module and so on
Yes
IC114-pin 2, 14 Are input signal H ?
No
Replace IC705
Yes
Replace IC114
Yes
Is data clock signal coming to R331 ?
No
Confirm the waveform of IC114-pin 13
No
Confirm the poor contact of lead wire of CN705-pin 20 ?
Check the 1394 Module and so on
Yes
IC114-pin 2, 14 Are input signal H ?
No
Replace IC705
Yes
Replace IC114
Yes
DATA OUT
Is outputting data clock signal from R323 ?
No
Replace IC301 or IC302 or IC303
Yes
Is outputting data clock signal from R315 ?
No
Replace IC301 or IC302 or IC303
Yes
Is outputting data clock signal from R313 ?
No
Replace IC301 or IC302 or IC303
Yes
Is outputting data clock signal from R306 ?
No
Replace IC301 or IC302 or IC303
Yes
END

Step 6 : 2nd DSP

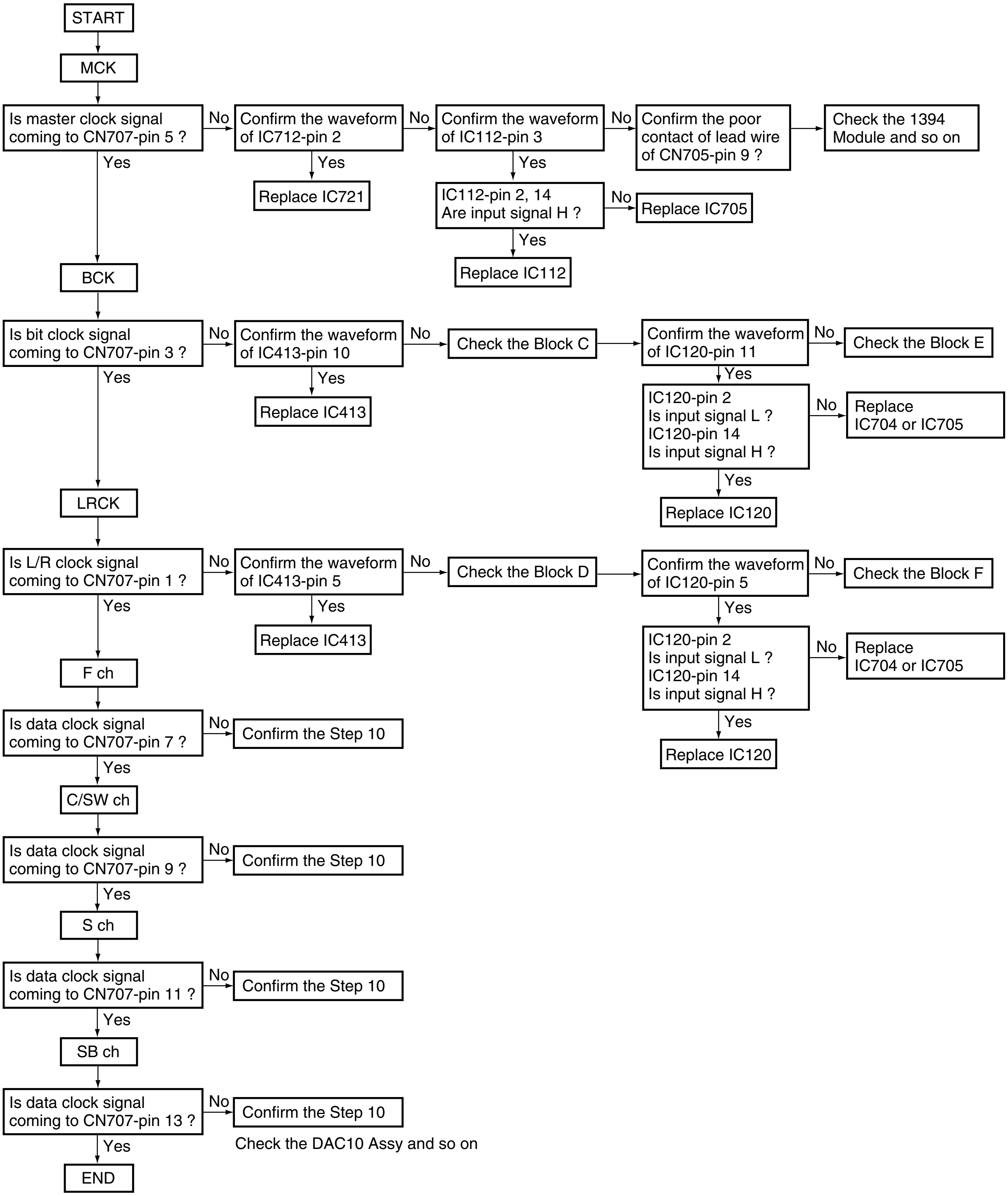

START
MCK
Is master clock signal coming to IC401-pin 55 ?
No
Confirm the waveform of IC414-pin 1
No
Replace X401
Yes
Replace IC414
Yes
BCK
Is bit clock signal coming to IC401-pin 15, 60 ?
No
Confirm the waveform of IC406-pin 1
No
Confirm the waveform of IC121-pin 10
No
Confirm the waveform of IC120-pin 11
No
Check the Block E
Yes
Replace IC406
Yes
Replace IC121
Yes
IC120-pin 2 Is input signal L ? IC120-pin 14 Is input signal H ?
No
Replace IC704 or IC705
Yes
Replace IC120
Yes
Is bit clock signal coming to IC401-pin 14, 53 ?
No
Confirm the waveform of IC409-pin 1
No
Check the Block C
No
Confirm the waveform of IC120-pin 11
No
Check the Block E
Yes
Replace IC409
Yes
IC120-pin 2 Is input signal L ? IC120-pin 14 Is input signal H ?
No
Replace IC704 or IC705
Yes
Replace IC120
Yes
LRCK
Is L/R clock signal coming to IC401-pin 13, 59 ?
No
Confirm the waveform of IC405-pin 1
No
Confirm the waveform of IC121-pin 13
No
Confirm the waveform of IC120-pin 5
No
Check the Block E
Yes
Replace IC121
Yes
IC120-pin 2 Is input signal L ? IC120-pin 14 Is input signal H ?
No
Replace IC704 or IC705
Yes
Replace IC120
Yes
Confirm the waveform of IC405-pin 2
No
Confirm the waveform of IC404-pin 11
No
Check the Block G
Yes
Confirm the waveform of IC404-pin 3
No
Confirm the waveform of IC121-pin 10
No
Check the Block A
Yes
Replace IC404
Yes
Replace IC121
Yes
Confirm the waveform of IC406-pin 13
No
Replace IC405
Yes
Replace IC406
Yes
H


H
Is L/R clock signal coming to IC401-pin 12, 50 ?
No
Confirm the waveform of IC408-pin 1
No
Check the Block D
Confirm the waveform of IC120-pin 5
No
Check the Block F
Yes
IC120-pin 2 Is input signal L ? IC120-pin 14 Is input signal H ?
No
Replace IC704 or IC705
Yes
Replace IC120
Yes
Yes
Confirm the waveform of IC408-pin 2
No
Confirm the waveform of IC407-pin 11
No
Confirm the waveform of IC409-pin 1
No
Check the Block C → Block A
Yes
Replace IC409
Yes
Yes
Confirm the waveform of IC407-pin 3
No
Check the Block C
Check the Block A
Yes
Replace IC407
Confirm the waveform of IC409-pin 13
No
Replace IC408
Yes
Replace IC409
DATA IN
Is data clock signal coming to IC401-pin 10 ?
No
Confirm the waveform of R323
Confirm the Step 8
Yes
Is data clock signal coming to IC401-pin 138 ?
No
Confirm the waveform of R315
Confirm the Step 8
Yes
Is data clock signal coming to IC401-pin 11 ?
No
Confirm the waveform of R313
Confirm the Step 8
Yes
Is data clock signal coming to IC401-pin 48 ?
No
Confirm the waveform of R306
Confirm the Step 8
Yes
DATA OUT
Is outputting data clock signal from IC401-pin 4 ?
No
Replace IC401 or IC402 or IC403
Yes
Is outputting data clock signal from IC401-pin 7 ?
No
Replace IC401 or IC402 or IC403
Yes
Is outputting data clock signal from IC401-pin 5 ?
No
Replace IC401 or IC402 or IC403
Yes
Is outputting data clock signal from IC401-pin 6 ?
No
Replace IC401 or IC402 or IC403
Yes
END

Step 7 : 3rd DSP


START
MCK
Is master clock signal coming to CN502-pin 12 ?
No
Confirm the waveform of IC414-pin 3
No
Replace X401
Yes
Replace IC414
Yes
BCK
Is bit clock signal coming to CN501-pin 9 ?
No
Confirm the waveform of IC413-pin 13
No
Check the Block C
Confirm the waveform of IC120-pin 11
No
Check the Block E
Yes
Replace IC413
Yes
IC120-pin 2
Is input signal L ?
IC120-pin 14
Is input signal H ?
No
Replace IC704 or IC705
Yes
Replace IC120
Yes
LRCK
Is L/R clock signal coming to CN501-pin 11 ?
No
Confirm the waveform of IC413-pin 2
No
Check the Block D
Confirm the waveform of IC120-pin 5
No
Check the Block F
Yes
Replace IC413
Yes
IC120-pin 2
Is input signal L ?
IC120-pin 14
Is input signal H ?
No
Replace IC704 or IC705
Yes
Replace IC120
Yes
DATA IN
Is data clock signal coming to CN501-pin 15 ?
No
Confirm the Step 9
Yes
Is data clock signal coming to CN501-pin 13 ?
No
Confirm the Step 9
Yes
Is data clock signal coming to CN501-pin 14 ?
No
Confirm the Step 9
Yes
Is data clock signal coming to CN501-pin 12 ?
No
Confirm the Step 9
Yes
DATA OUT
Is outputting data clock signal from CN501-pin 7 ?
No
Replace IC501 or IC502 or IC503
Yes
Is outputting data clock signal from CN501-pin 5 ?
No
Replace IC501 or IC502 or IC503
Yes
Is outputting data clock signal from CN501-pin 6 ?
No
Replace IC501 or IC502 or IC503
Yes
Is outputting data clock signal from CN501-pin 4 ?
No
Replace IC501 or IC502 or IC503
Yes
END

Step 8 : to DAC


START
MCK
Is master clock signal coming to CN707-pin 5 ?
No
Confirm the waveform of IC712-pin 2
No
Confirm the waveform of IC112-pin 3
No
Confirm the poor contact of lead wire of CN705-pin 9 ?
Check the 1394 Module and so on
Yes
Replace IC721
Yes
IC112-pin 2, 14 Are input signal H ?
No
Replace IC705
Yes
Replace IC112
Yes
BCK
Is bit clock signal coming to CN707-pin 3 ?
No
Confirm the waveform of IC413-pin 10
No
Check the Block C
Confirm the waveform of IC120-pin 11
No
Check the Block E
Yes
Replace IC413
Yes
IC120-pin 2 Is input signal L ? IC120-pin 14 Is input signal H ?
No
Replace IC704 or IC705
Yes
Replace IC120
Yes
LRCK
Is L/R clock signal coming to CN707-pin 1 ?
No
Confirm the waveform of IC413-pin 5
No
Check the Block D
Confirm the waveform of IC120-pin 5
No
Check the Block F
Yes
Replace IC413
Yes
IC120-pin 2 Is input signal L ? IC120-pin 14 Is input signal H ?
No
Replace IC704 or IC705
Yes
Replace IC120
Yes
F ch
Is data clock signal coming to CN707-pin 7 ?
No
Confirm the Step 10
Yes
C/SW ch
Is data clock signal coming to CN707-pin 9 ?
No
Confirm the Step 10
Yes
S ch
Is data clock signal coming to CN707-pin 11 ?
No
Confirm the Step 10
Yes
SB ch
Is data clock signal coming to CN707-pin 13 ?
No
Confirm the Step 10
Check the DAC10 Assy and so on
Yes
END

CLEANING

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	**Cleaning tools**
Pickup lenses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

Position to be cleaned	**Cleaning tools**
Fans	Cleaning paper : GED-008

7.1.6 OUTLINE OF THE WAVEFORMS RECEIVED BY THE DSP SECTION

The illustrated signal waveform is an example of the signal waveform when a Dolby Digital (Fs = 48 kHz) signal is received. It must be noted that a frequency (waveform period) other than that of the Master clock supplied to the DSP section changes depending on the format of input signals or mode of the unit. It must also be noted that the waveform being observed changes depending on the environment of the measurement system (high-frequency characteristics of an oscilloscope or a probe, grounding method, etc.).
(The numbers ①-⑨ of the waveform names correspond to those of the waveform data and those in the clock flowchart.)

S/PDIF signal waveforms

- Flow indicated with "◅ " in the clock flowchart
  Aperiodic rectangular-wave signal
  ① COAXIAL or demodulator input: Amplitude of approx. 5 Vp-p (when the signal is input to IC101)
  ② OPTICAL input: Amplitude of approx. 4 Vp-p (when the signal is input to IC101)
  ③ OPTICAL output: Amplitude of approx. 3.3 Vp-p (when the signal is output from IC101)

In the following waveforms, the amplitude of all clocks is approx. 3.3 Vp-p.

Audio data waveform

- Flow indicated with "◄ " in the clock flowchart
  Aperiodic rectangular-wave signal
  ④ Audio data waveform

Audio bit clock waveform

- Flow indicated with "← " in the clock flowchart
  Aperiodic rectangular-wave signal
  ⑤ Bit clock waveform

Audio L/R clock waveform

- Flow indicated with "⇚ " in the clock flowchart
  Aperiodic rectangular-wave signal
  ⑥ L/R clock waveform (except 2nd DPS)
  Waveforms of the lines other than those supplied to the second DSP
  ⑦ L/R clock waveform (2nd DPS)
  Waveforms generated in the block that supplies signals to the second DSP

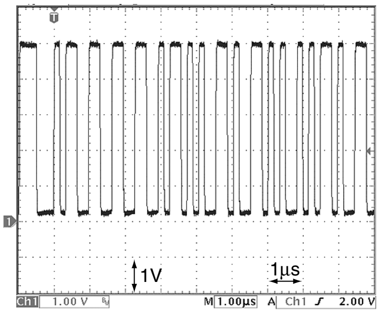
Audio master clock waveform

- Flow indicated with "≺ " in the clock flowchart
  Aperiodic rectangular-wave signal
  ⑧ Master clock waveform (for Audio signal)

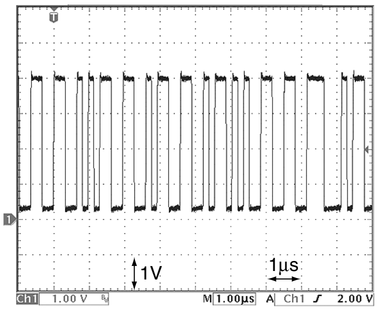
DSP master clock waveform

- Flow indicated with "⋖ " in the clock flowchart
  Aperiodic rectangular-wave signal
  ⑨ Master clock waveform (for DSP)
  Only this clock operates on a fixed frequency: 12.5 MHz (80 ns).

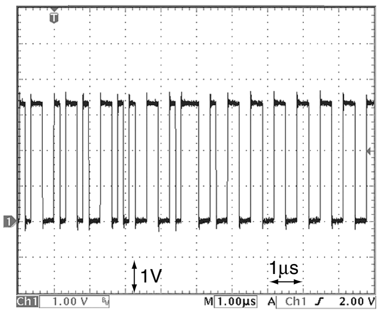
① COAXIAL or Demodulator input



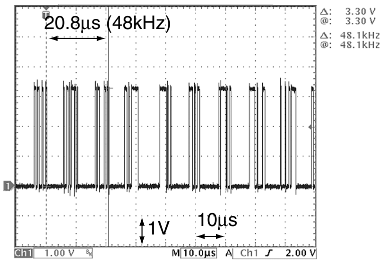
② OPTICAL input



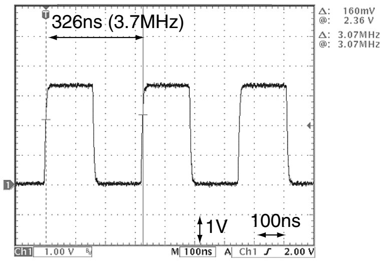
③ OPTICAL output



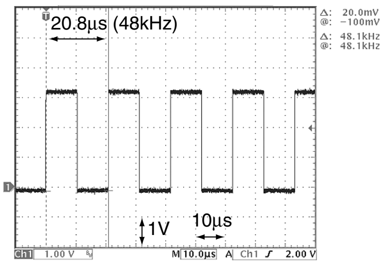
④ Audio data waveform



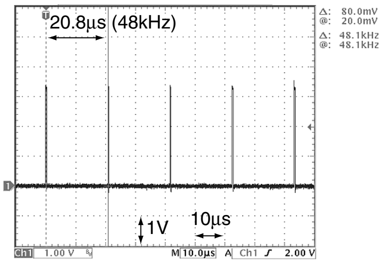
⑤ Bit clock waveform



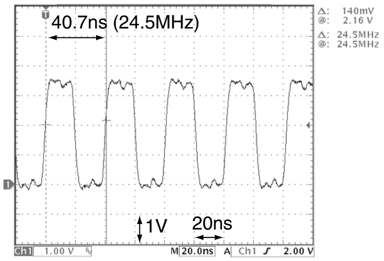
⑥ L/R clock waveform (except 2nd DSP)



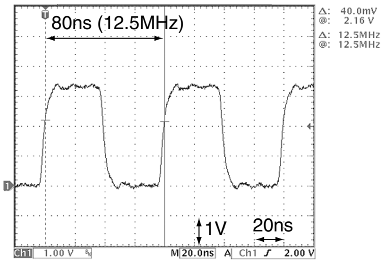
⑦ L/R clock wave form (2nd DSP)



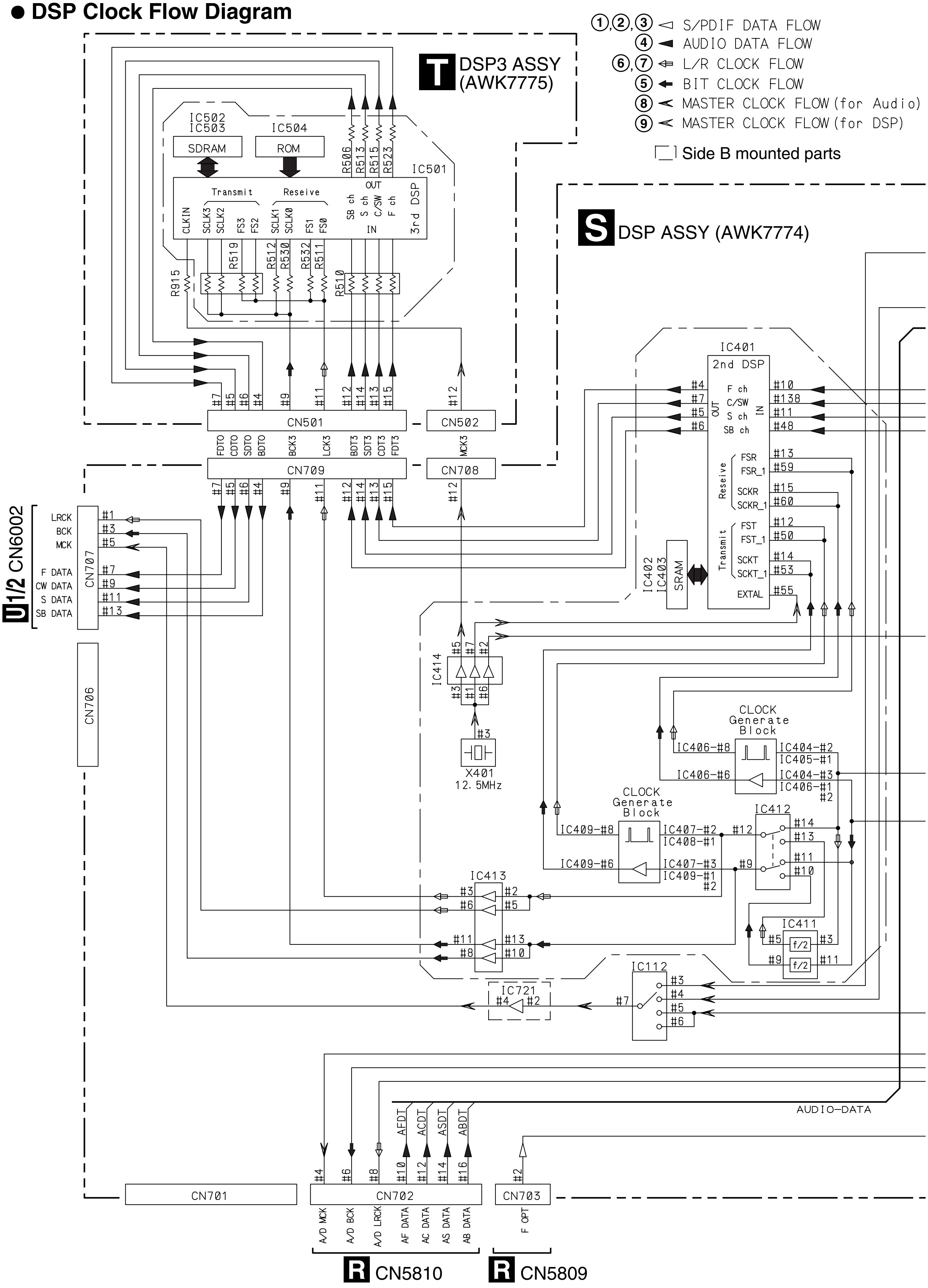
⑧ Master clock waveform (for Audio signal)

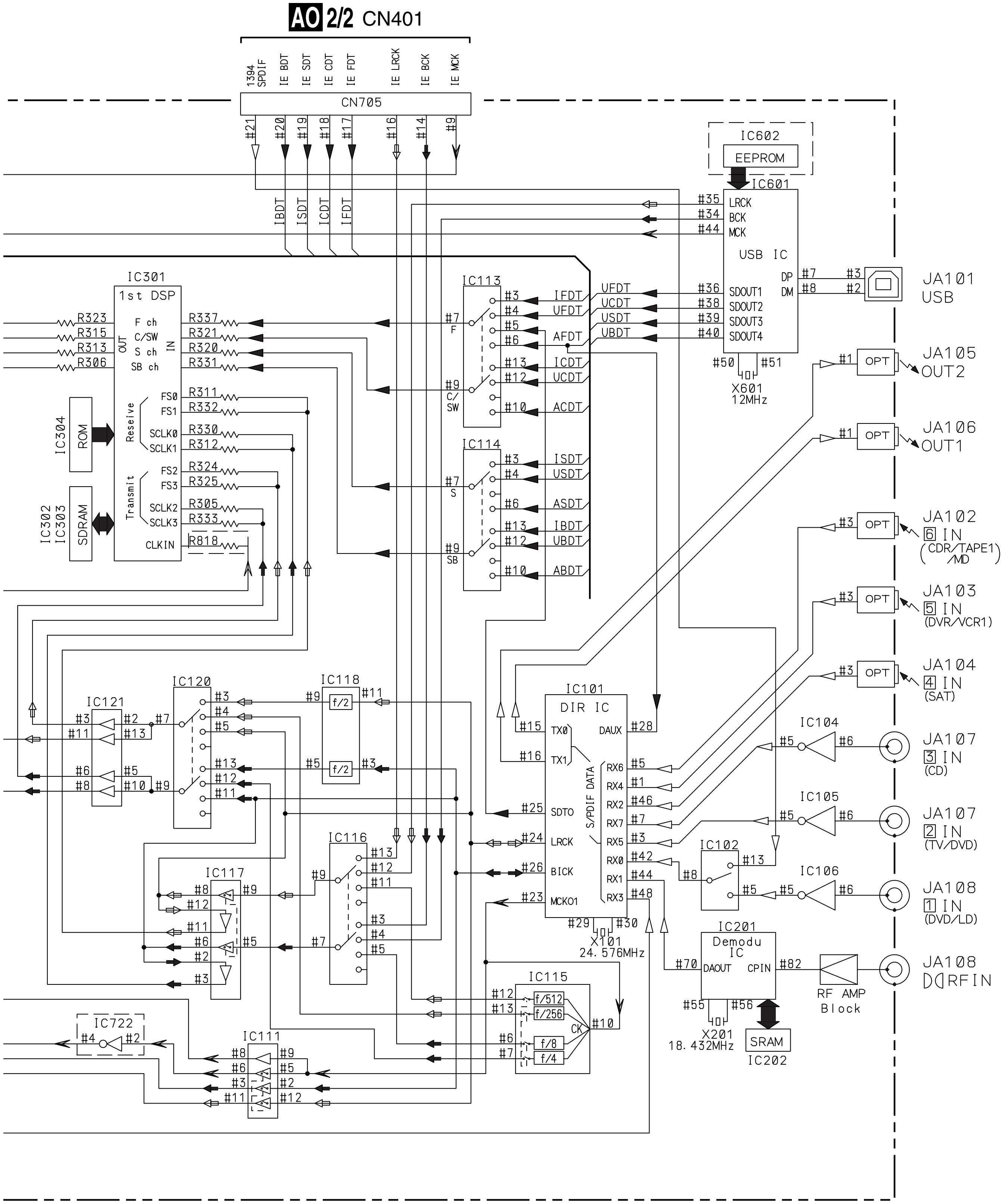


⑨ Master clock waveform (for DSP)

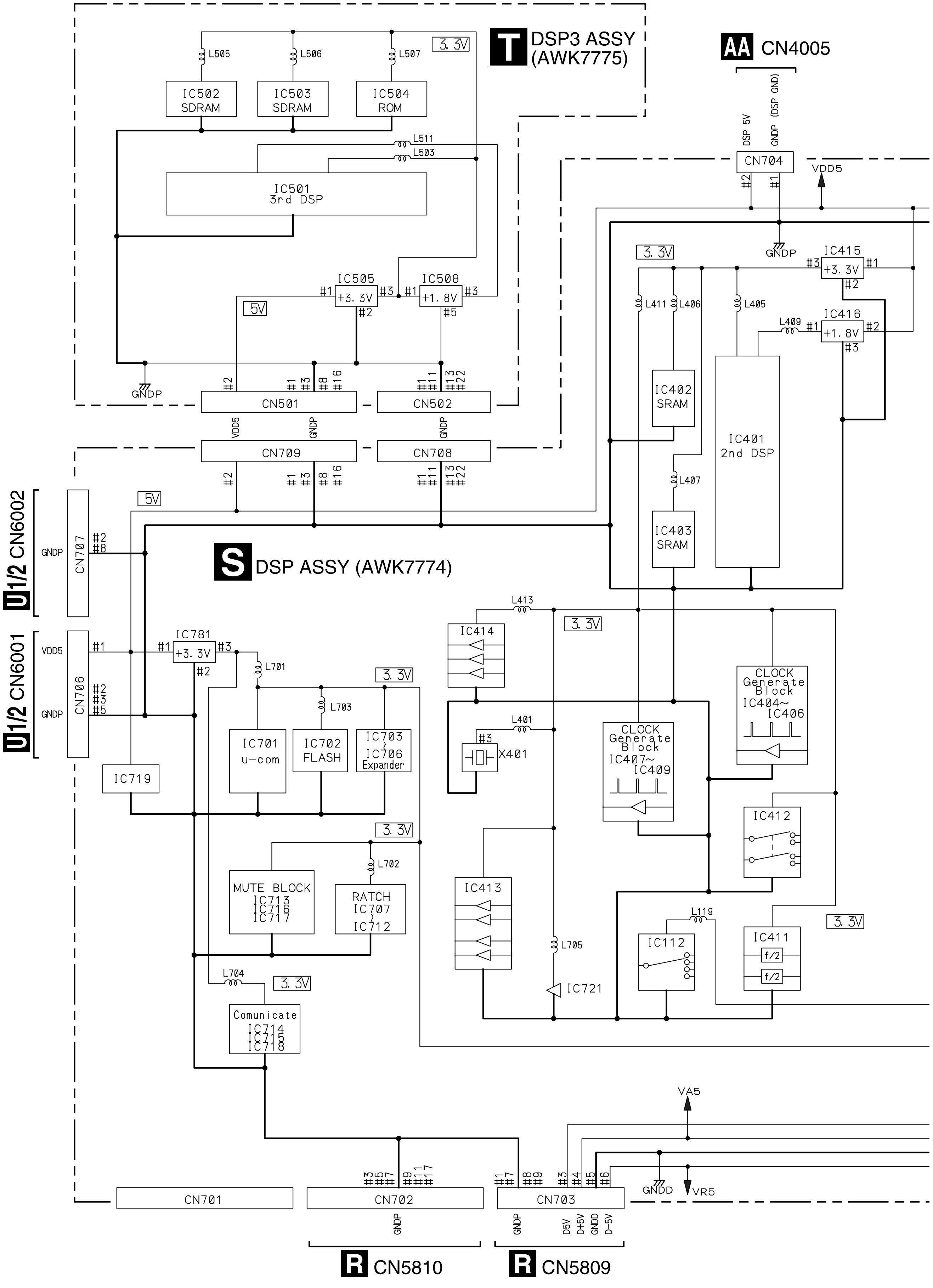


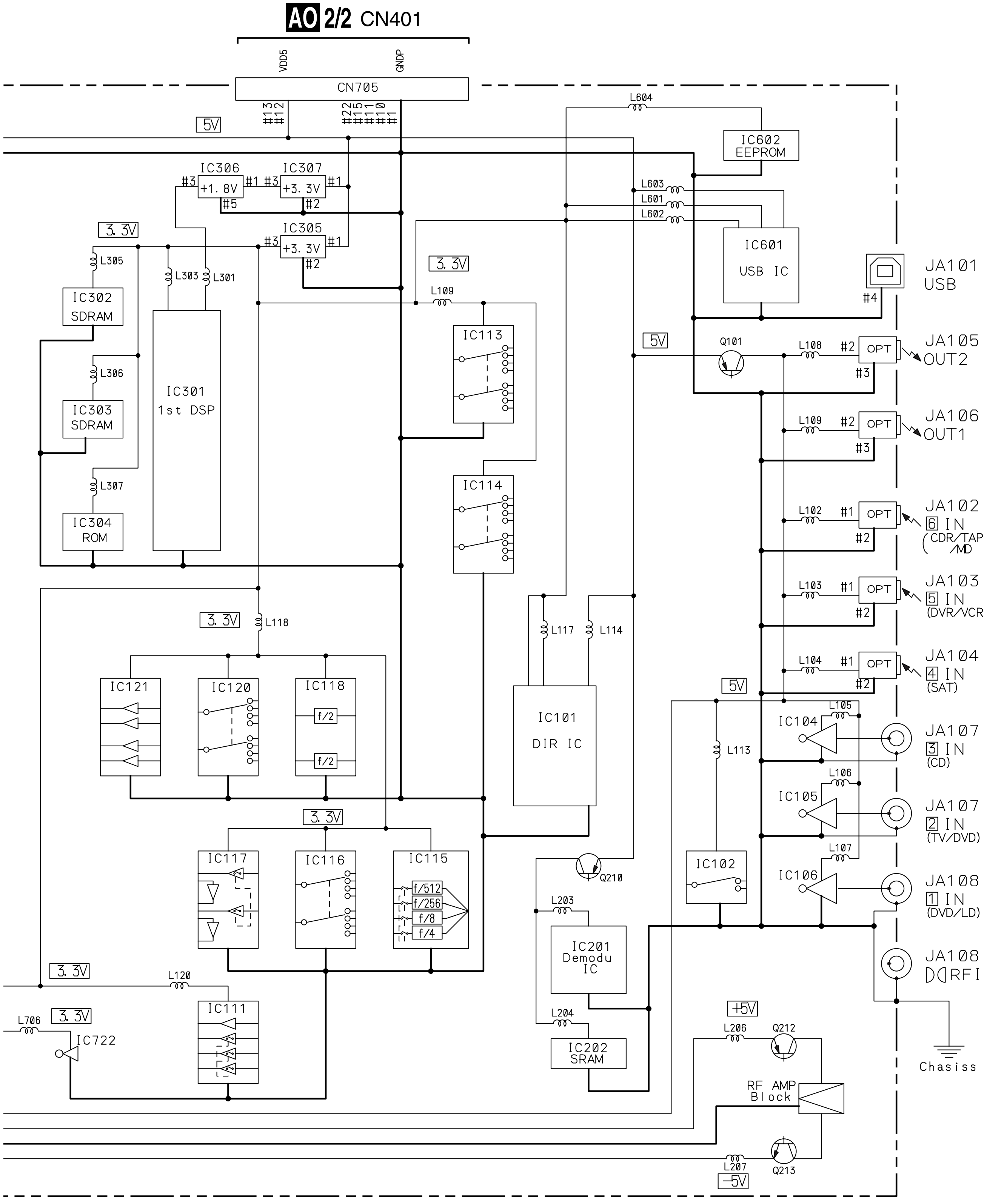
● DSP Clock Flow Diagram


①,②,③ ◁ S/PDIF DATA FLOW
④ ◀ AUDIO DATA FLOW
⑥,⑦ ⇦ L/R CLOCK FLOW
⑤ ← BIT CLOCK FLOW
⑧ ≺ MASTER CLOCK FLOW (for Audio)
⑨ ≺ MASTER CLOCK FLOW (for DSP)
Side B mounted parts
T DSP3 ASSY (AWK7775)
IC502 IC503 SDRAM
IC504 ROM
IC501 3rd DSP
Transmit Reseive OUT IN
CLKIN SCLK3 SCLK2 FS3 FS2 SCLK1 SCLK0 FS1 FS0
SB ch S ch C/SW F ch
R506 R513 R515 R523
R915 R519 R512 R530 R532 R511 R510
CN501 CN502
#7 #5 #6 #4 #9 #11 #12 #14 #13 #15 #12
FDTO CDTO SDTO BDTO BCK3 LCK3 BDT3 SDT3 CDT3 FDT3 MCK3
CN709 CN708
S DSP ASSY (AWK7774)
IC401 2nd DSP
OUT F ch C/SW S ch SB ch IN
#4 #7 #5 #6 #10 #138 #11 #48
Reseive FSR FSR_1 SCKR SCKR_1 #13 #59 #15 #60
Transmit FST FST_1 SCKT SCKT_1 #12 #50 #14 #53
EXTAL #55
IC402 IC403 SRAM
IC414 #5 #7 #2 #3 #1 #6
X401 #3 12.5MHz
CLOCK Generate Block
IC406-#8 IC406-#6 IC404-#2 IC405-#1 IC404-#3 IC406-#1 #2
CLOCK Generate Block
IC409-#8 IC409-#6 IC407-#2 IC408-#1 IC407-#3 IC409-#1 #2
IC412 #12 #9 #14 #13 #11 #10
IC413 #3 #6 #2 #5 #11 #8 #13 #10
IC411 #5 #9 #3 #11 f/2 f/2
IC112 #7 #3 #4 #5 #6
IC721 #4 #2
U 1/2 CN6002
CN707 LRCK BCK MCK F DATA CW DATA S DATA SB DATA
#1 #3 #5 #7 #9 #11 #13
CN706
AUDIO-DATA
AFDT ACDT ASDT ABDT
#4 #6 #8 #10 #12 #14 #16 #2
CN701 CN702 CN703
A/D MCK A/D BCK A/D LRCK AF DATA AC DATA AS DATA AB DATA F OPT
R CN5810
R CN5809


AO 2/2 CN401
1394 SPDIF
IE BDT
IE SDT
IE CDT
IE FDT
IE LRCK
IE BCK
IE MCK
CN705
#21 #20 #19 #18 #17 #16 #14 #9
IBDT
ISDT
ICDT
IFDT
IC602
EEPROM
IC601
#35 LRCK
#34 BCK
#44 MCK
USB IC
DP #7 #3
DM #8 #2
#36 SDOUT1
#38 SDOUT2
#39 SDOUT3
#40 SDOUT4
#50 #51
X601
12MHz
JA101
USB
IC301
1st DSP
R323
R315
R313
R306
OUT
F ch
C/SW
S ch
SB ch
IN
R337
R321
R320
R331
FS0
FS1
R311
R332
Reseive
SCLK0
SCLK1
R330
R312
Transmit
FS2
FS3
R324
R325
SCLK2
SCLK3
R305
R333
CLKIN
R818
IC304
ROM
IC302
IC303
SDRAM
IC113
#7 F
#9 C/SW
#3 IFDT
#4 UFDT
#5
#6 AFDT
#13 ICDT
#12 UCDT
#10 ACDT
UFDT
UCDT
USDT
UBDT
IC114
#7 S
#9 SB
#3 ISDT
#4 USDT
#6 ASDT
#13 IBDT
#12 UBDT
#10 ABDT
#1 OPT
JA105
OUT2
#1 OPT
JA106
OUT1
#3 OPT
JA102
6 IN
(CDR/TAPE1 /MD)
#3 OPT
JA103
5 IN
(DVR/VCR1)
#3 OPT
JA104
4 IN
(SAT)
IC121
#3 #2
#11 #13
#6 #5
#8 #10
IC120
#7
#9
#3
#4
#5
#13
#12
#11
IC118
#9 f/2 #11
#5 f/2 #3
IC101
DIR IC
#15 TX0
#16 TX1
DAUX #28
S/PDIF DATA
RX6 #5
RX4 #1
RX2 #46
RX7 #7
RX5 #3
RX0 #42
RX1 #44
RX3 #48
#25 SDTO
#24 LRCK
#26 BICK
#23 MCKO1
#29 #30
X101
24.576MHz
IC104
#5 #6
JA107
3 IN
(CD)
IC105
#5 #6
JA107
2 IN
(TV/DVD)
IC102
#13
#8
#5
IC106
#5 #6
JA108
1 IN
(DVD/LD)
IC201
Demodu IC
#70 DAOUT
CPIN #82
#55 #56
X201
18.432MHz
SRAM
IC202
RF AMP Block
JA108
RF IN
IC117
#8 #9
#12
#11
#6 #5
#2
#3
IC116
#9
#13
#12
#11
#7
#3
#4
#5
IC115
#12 f/512
#13 f/256
#6 f/8
#7 f/4
CK #10
IC722
#4 #2
IC111
#8 #9
#6 #5
#3 #2
#11 #12

● POWER/GND MAP


T DSP3 ASSY (AWK7775)
3.3V
L505
L506
L507
IC502 SDRAM
IC503 SDRAM
IC504 ROM
L511
L503
IC501 3rd DSP
IC505 +3.3V #1 #3 #2
IC508 +1.8V #1 #3 #5
5V
GNDP
CN501 #2 #1 #3 #8 #16
CN502 #1 #11 #13 #22
VDD5
GNDP
GNDP
CN709 #2 #1 #3 #8 #16
CN708 #1 #11 #13 #22
AA CN4005
DSP 5V
GNDP (DSP GND)
CN704 #2 #1
VDD5
GNDP
3.3V
IC415 #3 +3.3V #1 #2
IC416 #1 +1.8V #2 #3
L409
L411
L406
L405
IC402 SRAM
L407
IC403 SRAM
IC401 2nd DSP
U 1/2 CN6002
GNDP
CN707 #2 #8
5V
S DSP ASSY (AWK7774)
U 1/2 CN6001
VDD5
GNDP
CN706 #1 #2 #3 #5
IC781 #1 +3.3V #3 #2
L701
3.3V
L703
IC701 u-com
IC702 FLASH
IC703 ~ IC706 Expander
IC719
3.3V
L702
MUTE BLOCK IC713 IC716 IC717
RATCH IC707 ~ IC712
L704
3.3V
Comunicate IC714 IC715 IC718
L413
3.3V
IC414
L401
#3
X401
CLOCK Generate Block IC407~ IC409
CLOCK Generate Block IC404~ IC406
IC412
IC413
L705
IC721
L119
IC112
3.3V
IC411
f/2
f/2
VA5
GNDD
VR5
CN701
CN702 #3 #5 #7 #9 #11 #17
CN703 #1 #7 #8 #9 #3 #4 #5 #6
GNDP
GNDP
D5V
D+5V
GNDD
D-5V
R CN5810
R CN5809

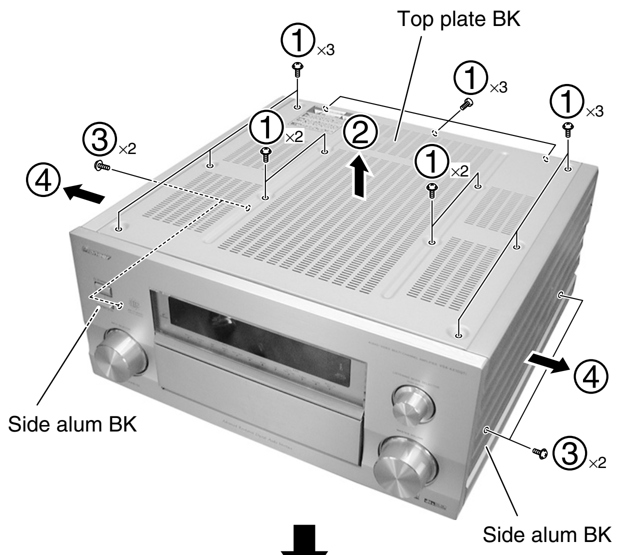

AO 2/2 CN401
VDD5
GNDP
CN705
#13 #12
#22 #15 #11 #10 #1
5V
L604
IC602 EEPROM
IC306 +1.8V
#3 #1 #5
IC307 +3.3V
#3 #1 #2
L603
L601
L602
IC305 +3.3V
#3 #1 #2
3.3V
L305
L303
L301
IC302 SDRAM
L306
IC303 SDRAM
L307
IC304 ROM
IC301 1st DSP
3.3V
L109
IC113
IC114
IC601 USB IC
JA101 USB
#4
5V
Q101
L108 #2 OPT #3
JA105 OUT2
L109 #2 OPT #3
JA106 OUT1
L102 #1 OPT #2
JA102 6 IN (CDR/TAPE1 /MD)
L103 #1 OPT #2
JA103 5 IN (DVR/VCR1)
L104 #1 OPT #2
JA104 4 IN (SAT)
3.3V
L118
L117
L114
IC121
IC120
IC118
f/2
f/2
IC101 DIR IC
5V
L113
L105
IC104
JA107 3 IN (CD)
L106
IC105
JA107 2 IN (TV/DVD)
3.3V
IC117
IC116
IC115
f/512
f/256
f/8
f/4
Q210
IC102
L107
IC106
JA108 1 IN (DVD/LD)
L203
IC201 Demodu IC
JA108 DDRF IN
3.3V
L120
IC111
L706
3.3V
IC722
L204
IC202 SRAM
+5V
L206
Q212
RF AMP Block
Chasiss
L207
Q213
-5V

7.1.7 Disassembly

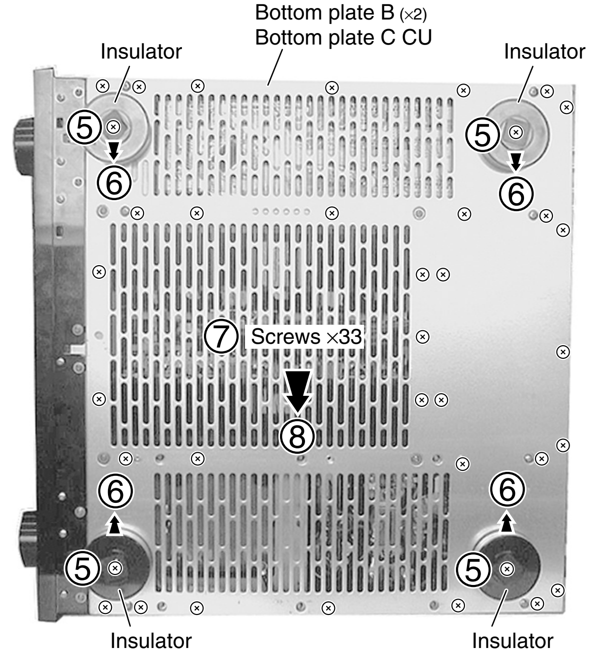
Note :
Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

1 Exterior Section

① Remove the thirteen screws.
② Remove the top plate BK.
③ Remove the four screws.
④ Remove the two side alum BKs.


Top plate BK
①×3
①×3
①×3
①×2
②
①×2
③×2
④
④
③×2
Side alum BK
Side alum BK

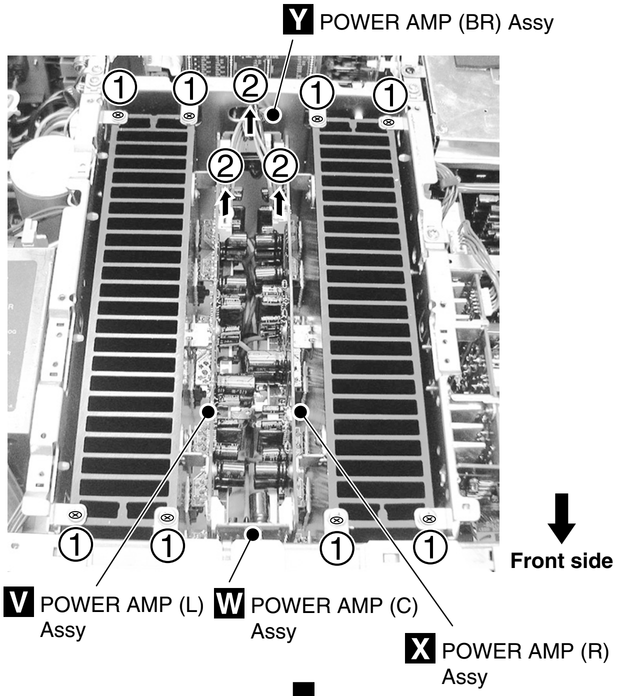
⑤ Remove the four screws.
⑥ Remove the four insulators.
⑦ Remove the thirty three screws.
⑧ Remove the two Bottom Plate Bs and the Bottom Plate C CU.


Bottom plate B (×2)
Bottom plate C CU
Insulator
Insulator
⑤
⑥
⑤
⑥
⑦ Screws ×33
⑧
⑥
⑥
⑤
⑤
Insulator
Insulator

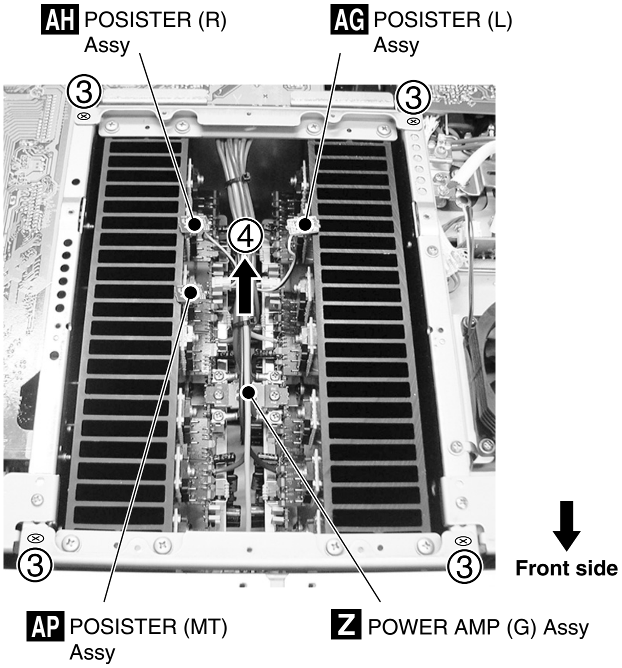
● **Bottom view**

2 Heat Sink Section

① Remove the eight screws.
② Disconnect the three connectors.


Y POWER AMP (BR) Assy
①
①
②
①
①
②
②
①
①
①
①
Front side
V POWER AMP (L) Assy
W POWER AMP (C) Assy
X POWER AMP (R) Assy

③ Remove the four screws.
④ Remove the heat sink section.

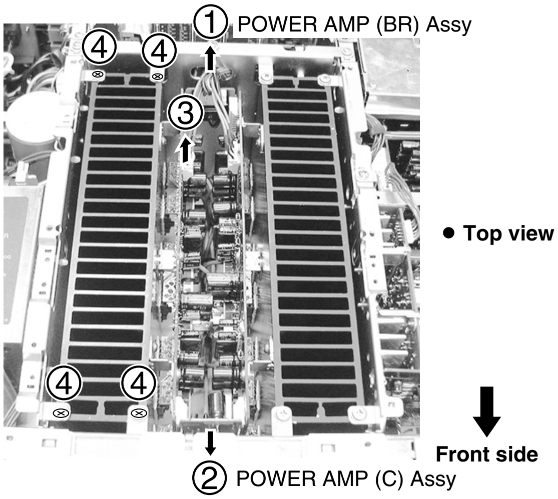

AH POSISTER (R) Assy
AG POSISTER (L) Assy
③
③
④
③
③
Front side
AP POSISTER (MT) Assy
Z POWER AMP (G) Assy

● **Bottom view**

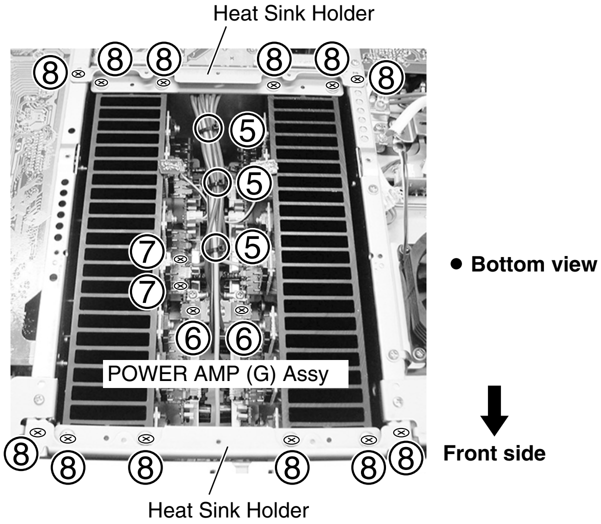
● How to Diagnose the Power Amplifier Blocks One by One (e.g., L channel)

① Remove the POWER AMP (BR) Assy.
② Remove the POWER AMP (C) Assy.
③ Remove the one connector.
④ Remove the four screws.

Note: Be sure not to remove the screws that secure the heat sink for the R channel.

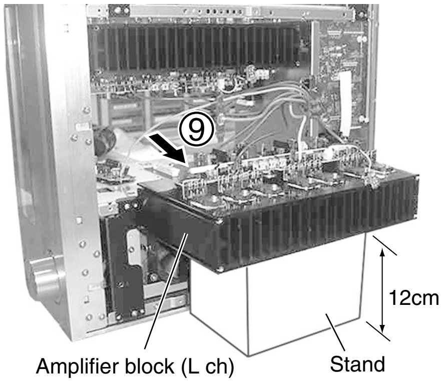

① POWER AMP (BR) Assy
④
④
③
● Top view
④
④
Front side
② POWER AMP (C) Assy

⑤ Remove the three binders.
⑥ Remove the POWER AMP (G) Assy by removing the two screws.
⑦ Remove the two rug terminals by removing the two screws.
⑧ Remove the heat sink holder by removing the twelve screws.

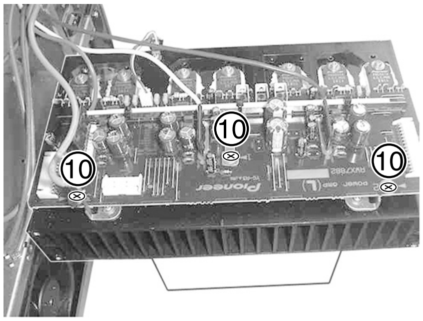

Heat Sink Holder
⑧ ⑧ ⑧ ⑧ ⑧ ⑧
⑤
⑤
⑦
⑤
⑦
⑥ ⑥
POWER AMP (G) Assy
● Bottom view
Front side
⑧ ⑧ ⑧ ⑧ ⑧ ⑧
Heat Sink Holder

⑨ Pull up the amprifer block.

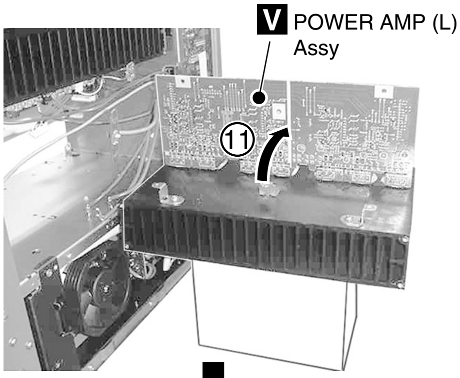
Note: Stand the main unit so that the amplifier block to be pulled out is toward the bottom.
Provide a stand just below the amplifier block with a height of approx. 12 cm.


⑨
12cm
Amplifier block (L ch)
Stand

⑩ Remove the three screws.



⑪ Stand the POWER AMP (L) Assy.


V POWER AMP (L) Assy
⑪

Diagnosis

Note: Proceed with diagnosis of the amplifier block for the R channel in the same way.
To reassemble, reverse the procedures above.

3 Rear Panel Section

① Disconnect the one connector.

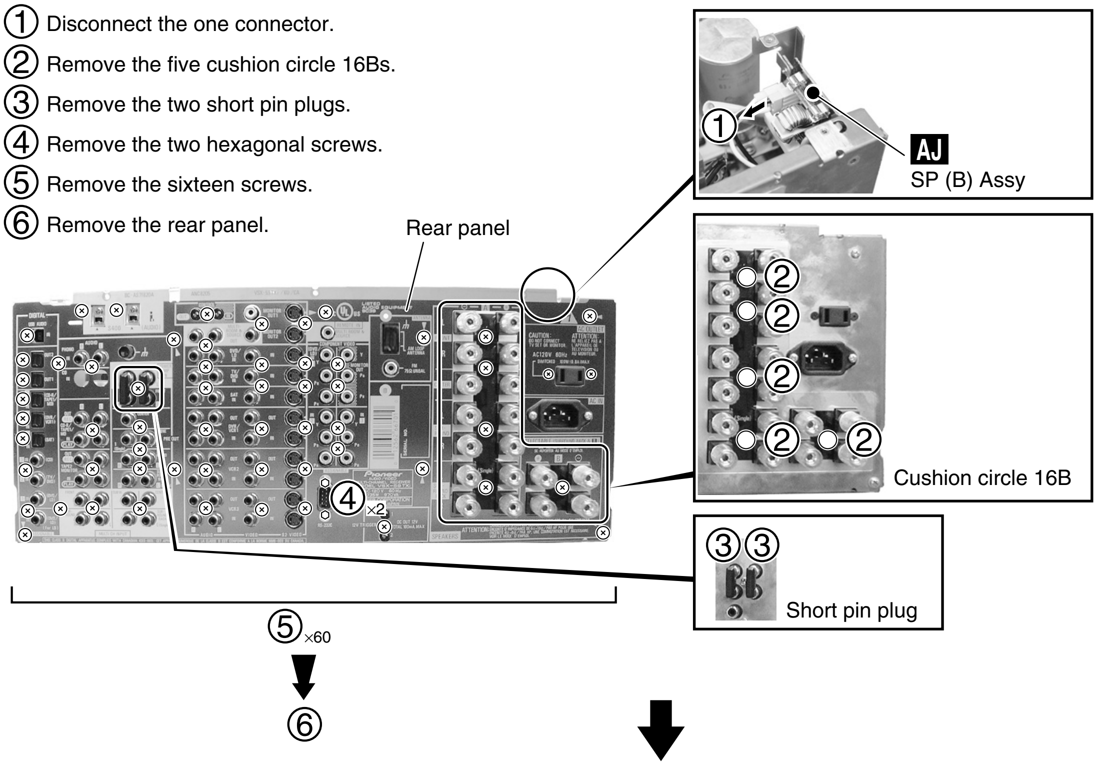
② Remove the five cushion circle 16Bs.

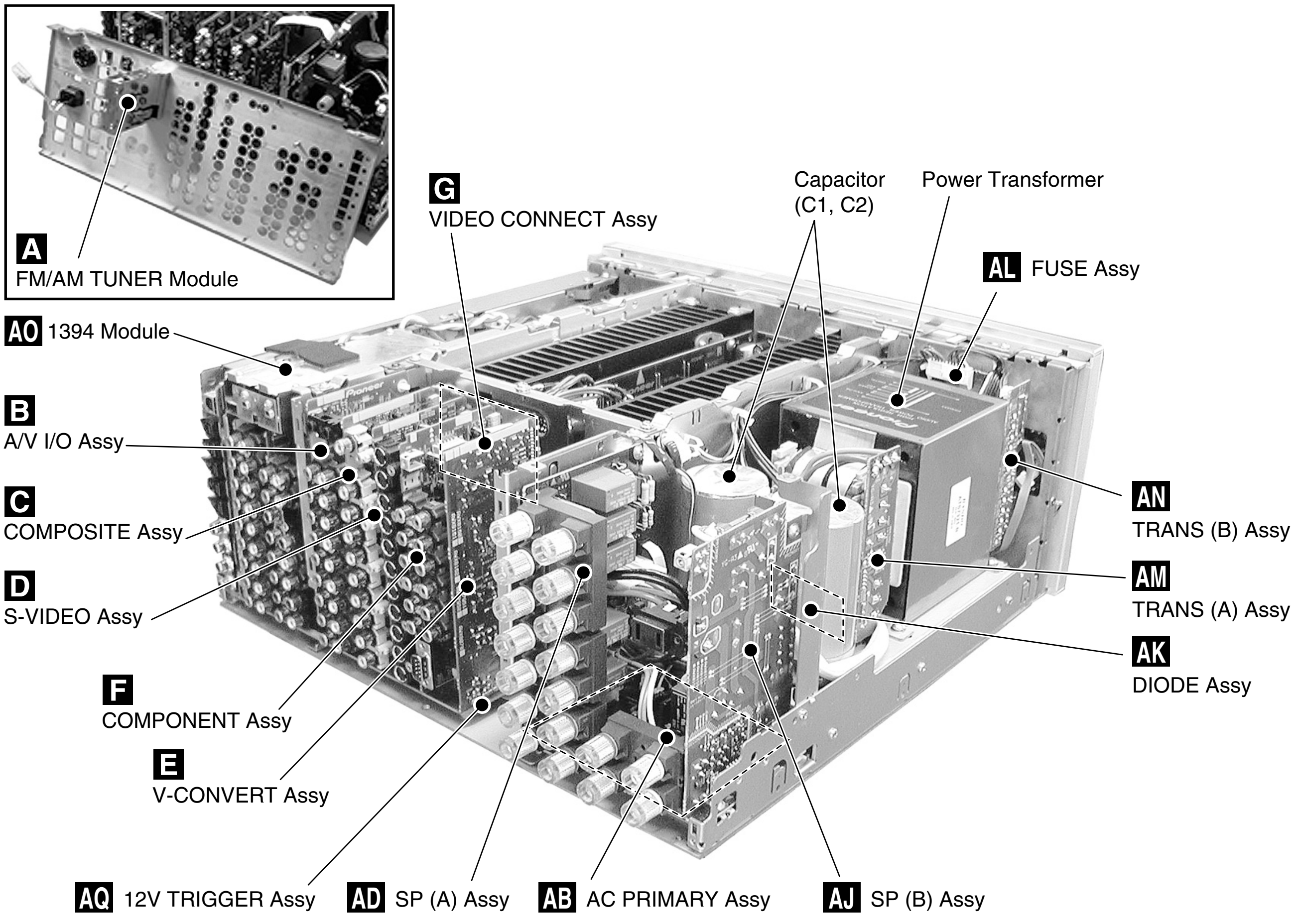
③ Remove the two short pin plugs.

④ Remove the two hexagonal screws.

⑤ Remove the sixteen screws.

⑥ Remove the rear panel.

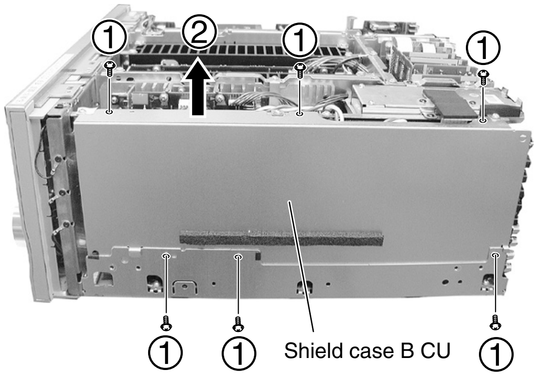

①
AJ
SP (B) Assy
Rear panel
②
②
②
②
②
Cushion circle 16B
③③
Short pin plug
④×2
⑤×60
⑥


A
FM/AM TUNER Module
G
VIDEO CONNECT Assy
Capacitor
(C1, C2)
Power Transformer
AL FUSE Assy
AO 1394 Module
B
A/V I/O Assy
C
COMPOSITE Assy
D
S-VIDEO Assy
F
COMPONENT Assy
E
V-CONVERT Assy
AN
TRANS (B) Assy
AM
TRANS (A) Assy
AK
DIODE Assy
AQ 12V TRIGGER Assy
AD SP (A) Assy
AB AC PRIMARY Assy
AJ SP (B) Assy

4 DSP and DAC Section

① Remove the six screws.

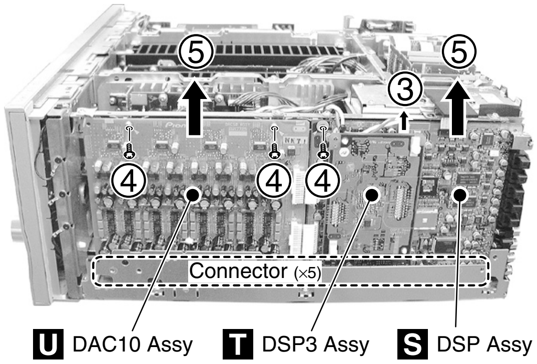
② Remove the shield case B CU.


①
②
①
①
①
①
Shield case B CU
①

③ Disconnect the one connector.

④ Remove the three screws.

⑤ Remove the DAC10 Assy and the DSP Assys.

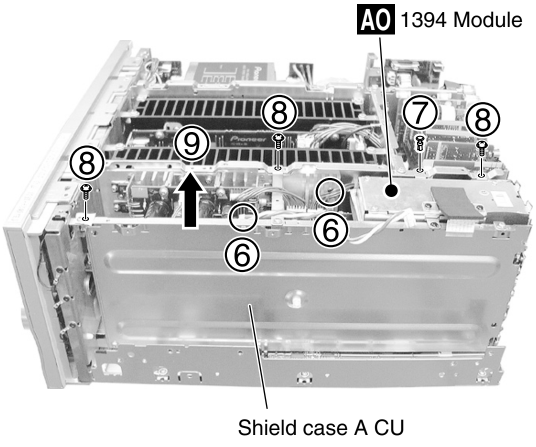

⑤
⑤
③
④
④
④
Connector (×5)
U DAC10 Assy
T DSP3 Assy
S DSP Assy

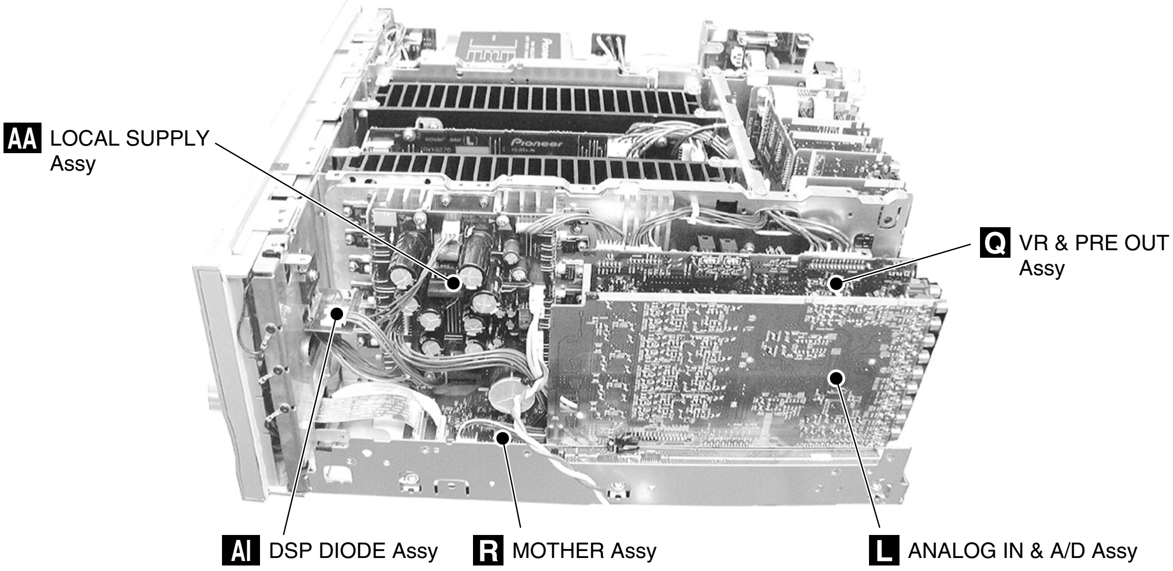
⑥ Remove the two jumper wires.

⑦ Remove the one nyron rivet.

⑧ Remove the three screws.

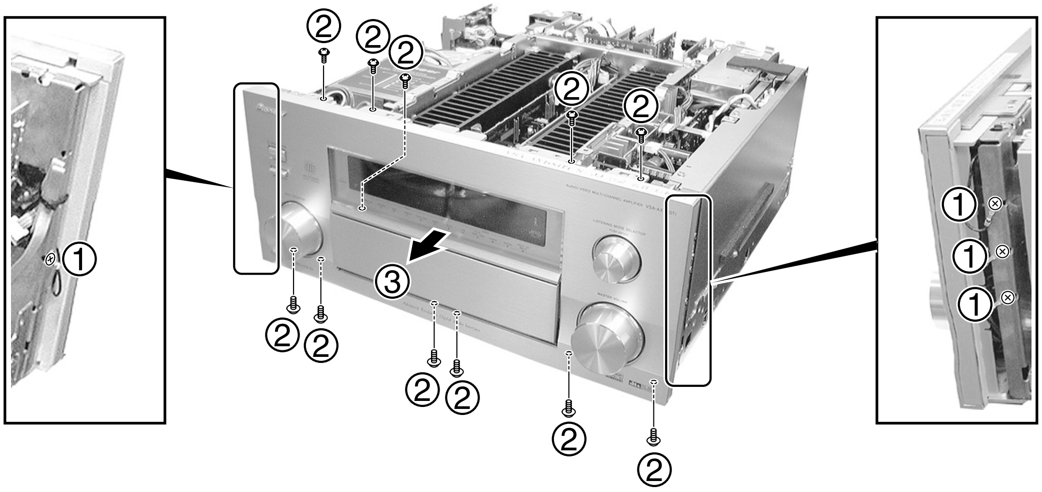
⑨ Remove the shield case A CU with 1394 Module.


AO 1394 Module
⑧
⑦
⑧
⑨
⑧
⑥
⑥
Shield case A CU


AA LOCAL SUPPLY Assy
Q VR & PRE OUT Assy
AI DSP DIODE Assy
R MOTHER Assy
L ANALOG IN & A/D Assy

5 Front Panel Section

① Remove the four screws.
② Remove the eleven screws.
③ Remove the front panel section.


①
①
①
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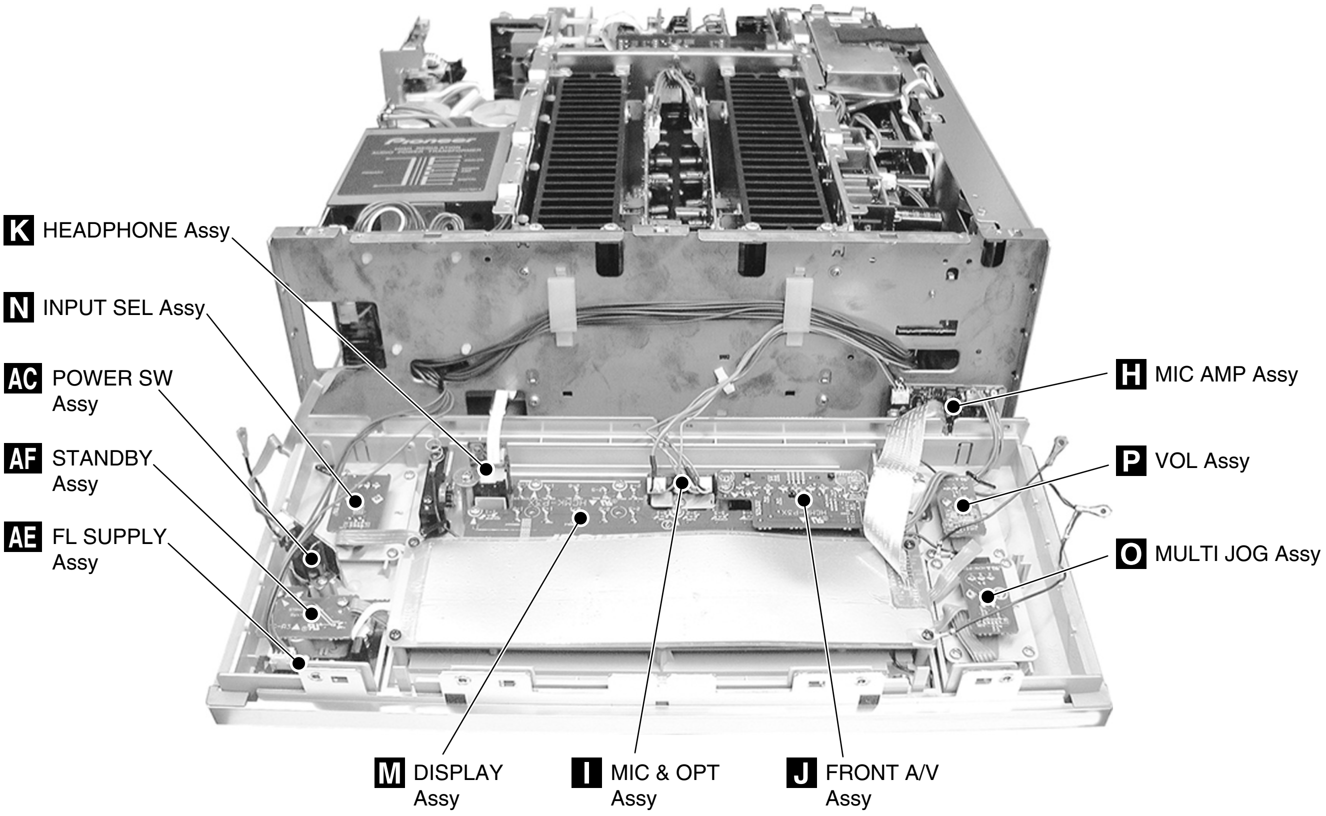
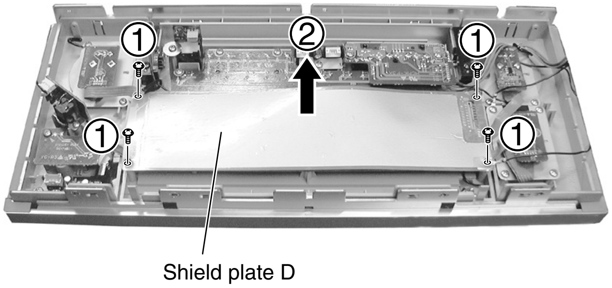

K HEADPHONE Assy
N INPUT SEL Assy
AC POWER SW Assy
AF STANDBY Assy
AE FL SUPPLY Assy
H MIC AMP Assy
P VOL Assy
O MULTI JOG Assy
M DISPLAY Assy
I MIC & OPT Assy
J FRONT A/V Assy

6 Sash

① Remove the four screws.

② Remove the shield plate D.


①
②
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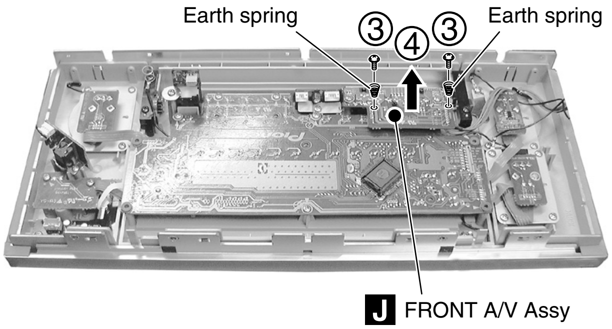
①
①
Shield plate D

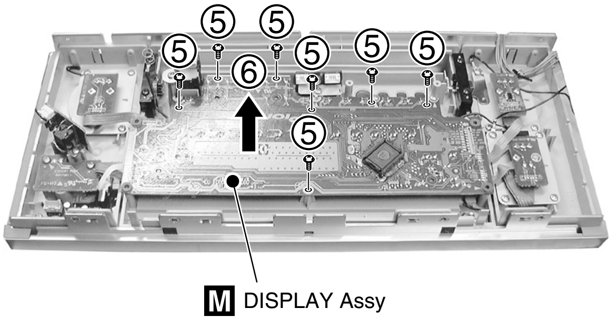
③ Remove the two screws.

④ Remove the FRONT A/V Assy.

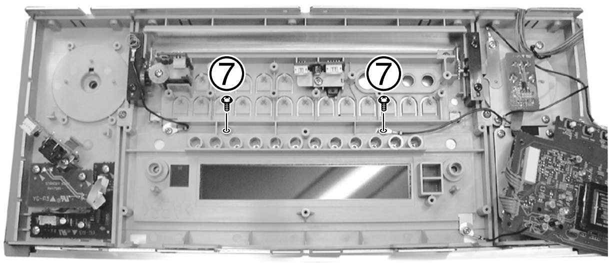

Earth spring
③
④
③
Earth spring
J FRONT A/V Assy

⑤ Remove the seven screws.

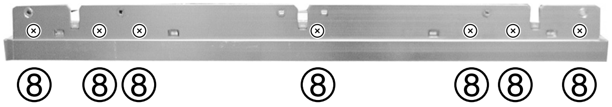
⑥ Remove the DISPLAY Assy.


⑤
⑤
⑤
⑤
⑤
⑤
⑥
⑤
M DISPLAY Assy

⑦ Remove the two screws.



⑧ Remove the seven screws.

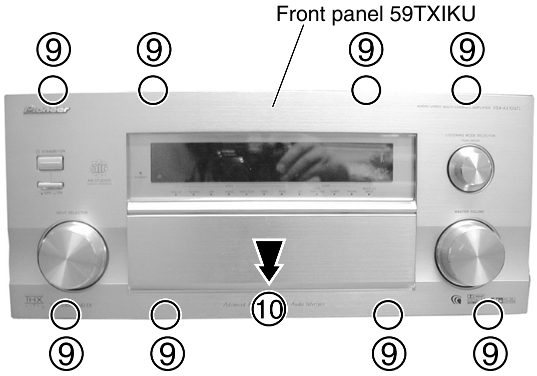


● **Bottom view**

⑨ Remove the eight hooks.

⑩ Remove the front panel 59TXIKU.

⑪ Remove the Display Panel GTI and the Sash.


Front panel 59TXIKU
⑨
⑨
⑨
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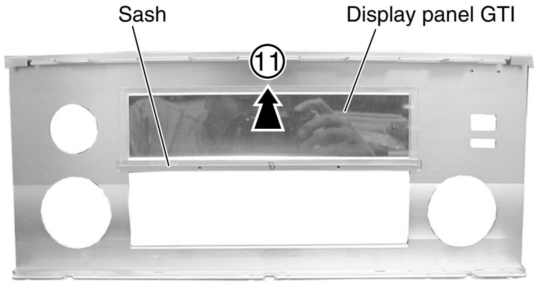
⑩
⑨
⑨
⑨
⑨


Sash
Display panel GTI
⑪

● **Rear view**

7.2 PARTS

7.2.1 IC

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

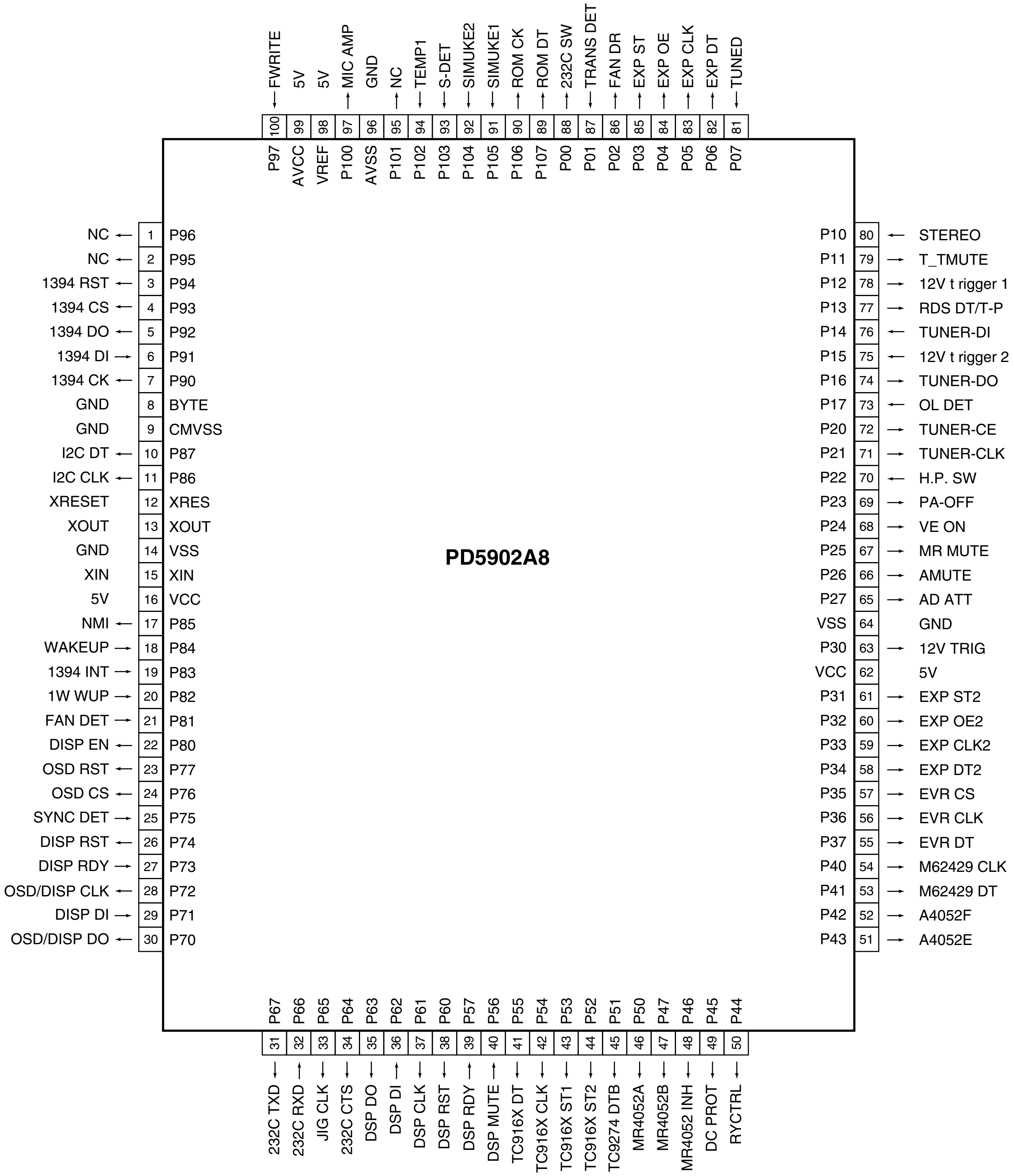
● List of IC

PD5902A8, PD5686C, PD5787A

■ PD5902A8 (MOTHER ASSY : IC5801)

- **Main Microcomputer**

● Pin Assignment (Top view)



PD5902A8
1 P96 NC
2 P95 NC
3 P94 1394 RST
4 P93 1394 CS
5 P92 1394 DO
6 P91 1394 DI
7 P90 1394 CK
8 BYTE GND
9 CMVSS GND
10 P87 I2C DT
11 P86 I2C CLK
12 XRES XRESET
13 XOUT XOUT
14 VSS GND
15 XIN XIN
16 VCC 5V
17 P85 NMI
18 P84 WAKEUP
19 P83 1394 INT
20 P82 1W WUP
21 P81 FAN DET
22 P80 DISP EN
23 P77 OSD RST
24 P76 OSD CS
25 P75 SYNC DET
26 P74 DISP RST
27 P73 DISP RDY
28 P72 OSD/DISP CLK
29 P71 DISP DI
30 P70 OSD/DISP DO
31 P67 232C TXD
32 P66 232C RXD
33 P65 JIG CLK
34 P64 232C CTS
35 P63 DSP DO
36 P62 DSP DI
37 P61 DSP CLK
38 P60 DSP RST
39 P57 DSP RDY
40 P56 DSP MUTE
41 P55 TC916X DT
42 P54 TC916X CLK
43 P53 TC916X ST1
44 P52 TC916X ST2
45 P51 TC9274 DTB
46 P50 MR4052A
47 P47 MR4052B
48 P46 MR4052 INH
49 P45 DC PROT
50 P44 RYCTRL
51 P43 A4052E
52 P42 A4052F
53 P41 M62429 DT
54 P40 M62429 CLK
55 P37 EVR DT
56 P36 EVR CLK
57 P35 EVR CS
58 P34 EXP DT2
59 P33 EXP CLK2
60 P32 EXP OE2
61 P31 EXP ST2
62 VCC 5V
63 P30 12V TRIG
64 VSS GND
65 P27 AD ATT
66 P26 AMUTE
67 P25 MR MUTE
68 P24 VE ON
69 P23 PA-OFF
70 P22 H.P. SW
71 P21 TUNER-CLK
72 P20 TUNER-CE
73 P17 OL DET
74 P16 TUNER-DO
75 P15 12V t rigger 2
76 P14 TUNER-DI
77 P13 RDS DT/T-P
78 P12 12V t rigger 1
79 P11 T_TMUTE
80 P10 STEREO
81 P07 TUNED
82 P06 EXP DT
83 P05 EXP CLK
84 P04 EXP OE
85 P03 EXP ST
86 P02 FAN DR
87 P01 TRANS DET
88 P00 232C SW
89 P107 ROM DT
90 P106 ROM CK
91 P105 SIMUKE1
92 P104 SIMUKE2
93 P103 S-DET
94 P102 TEMP1
95 P101 NC
96 AVSS GND
97 P100 MIC AMP
98 VREF 5V
99 AVCC 5V
100 P97 FWRITE

• Pin Function

No.	Pin Name	I/O	Pin Function	Active
1	–	O	NC "L" fixed.	
2	–	O	NC "L" fixed.	
3	1394 RST	O	Standby for 1394 (Not used) "L" fixed.	
4	1394 CS	O	Standby for 1394 (Not used) "L" fixed.	
5	1394 DO	O	Standby for 1394 (Not used) "L" fixed.	
6	1394 DI	I	Standby for 1394 (Not used) Standby with the circuit.	
7	1394 CK	O	Standby for 1394 (Not used) "L" fixed.	
8	GND	–	Ground	
9	GND	–	Ground	
10	I2C DT	I/O	Data signal for video converter IC control I2C bus system	
11	I2C CLK	O	Clock signal for video converter IC control I2C bus system	
12	XRESET	–	Reset	
13	XOUT	–	Oscillator	
14	GND	–	Ground	
15	XIN	–	Oscillator	
16	5V	–	5V power supply	
17	NMI	I	Cannot use it as usual input port (100kΩ pullup)	
18	WAKEUP	I	Wakeup	H
19	1394 INT	I	Standby for 1394 (Not used) Standby with the circuit.	
20	1W WUP	I	Wakeup signal at standby (from the display microcomputer) (pulldown)	H
21	FAN DET	I	Fix to "L" with the hardware.	
22	DISP EN	O	Communication enabling signal to the display microcomputer	H
23	OSD RST	O	OSD-IC reset signal L: reset, H: release reset	
24	OSD CS	O	OSD-IC chip select signal	H
25	SYNC DET	I	Internal/external sync detection (Switch the internal/external sync of OSD-IC.)	L: EXT
26	DISP RST	O	Display microcomputer reset signal L: reset, H: release reset (pulldown)	
27	DISP RDY	I	Communication enabling signal from the display microcomputer	H
28	OSD/DISP CLK	O	Communication clock signal with the OSD-IC/display microcomputer	
29	DISP DI	I	Communication data in signal with the display microcomputer (N ch open drain: pullup)	
30	OSD/DISP DO	O	Communication data out signal with the OSD-IC/display microcomputer (N ch open drain: pullup)	
31	232C TXD	O	For 232C rewriting (data output)	
32	232C RXD	I	For 232C rewriting (data input)	
33	CLK	O	Not used	
34	232C CTS	O	For 232C rewriting (communication enabling)	
35	DSP DO	O	Communication data out signal with the DSP microcomputer	
36	DSP DI	I	Communication data in signal with the DSP microcomputer	
37	DSP CLK	O	Communication clock signal with the DSP microcomputer	
38	DSP RST	O	DSP microcomputer reset signal L: reset, H: release reset	
39	DSP RDY	I	Communication enabling signal from the DSP microcomputer	H
40	DSP MUTE	I	Mute request signal from the DSP microcomputer H: Mute request	H
41	TC916X DT	O	Function SW control data	
42	TC916X CLK	O	Function SW control clock	
43	TC916X ST1	O	Main audio switching control strobe of TC9162 and TC9163. Multi audio switching control strobe of TC9164	
44	TC9163 STX	O	Multi/2ch signal switch	
45	TC9274 STB	O	DIRECT/DSP switching control strobe	
46	MR4052A	O	Switching control signal 1 of multi room audio system	
47	MR4052B	O	Switching control signal 2 of multi room audio system	
48	MR4052INH	O	Switching control signal 3 of multi room audio system H: output OFF	
49	DC PROT	I	DC detection H: detection	H
50	RYCTRL	O	SP relay ON/OFF	H

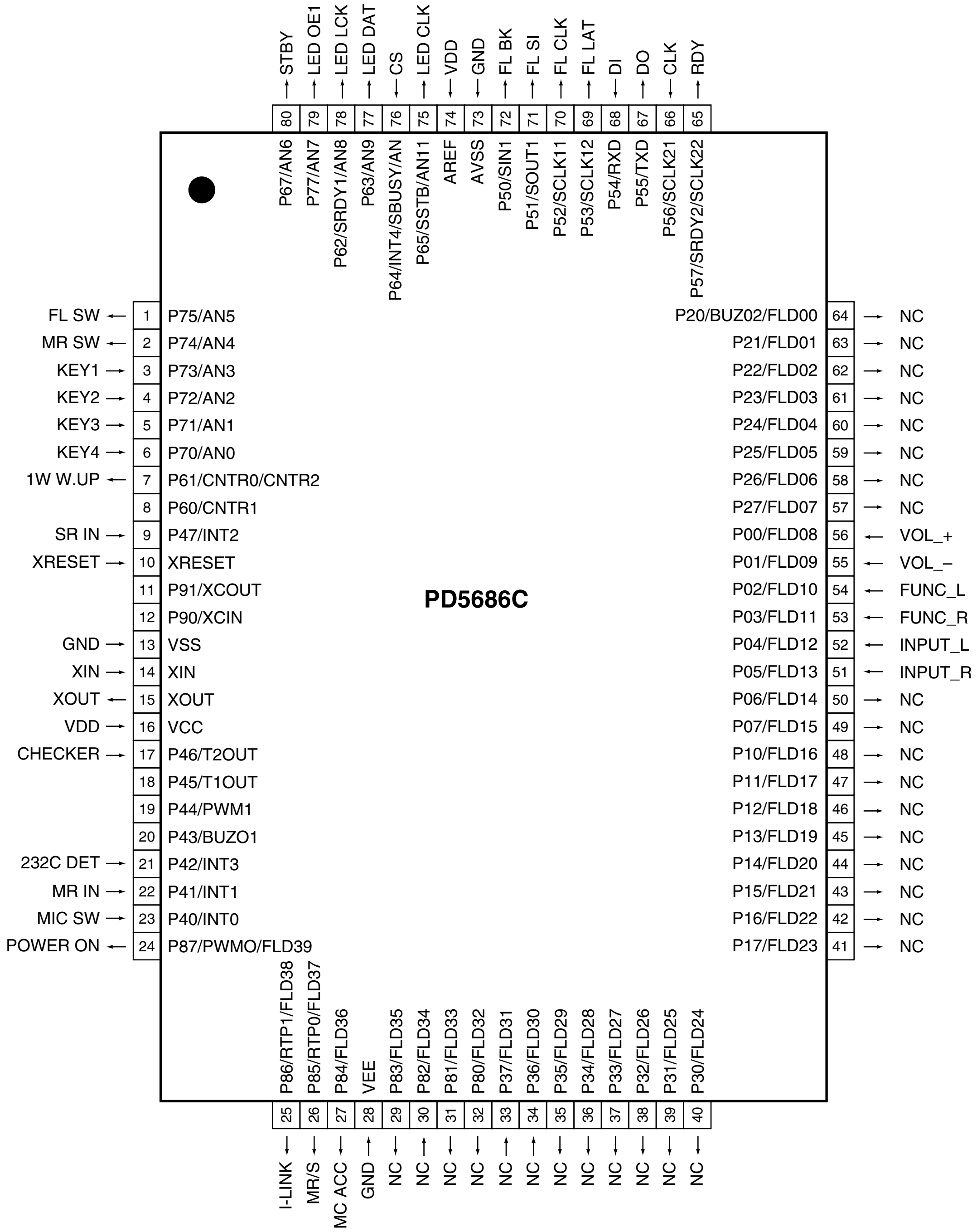
• Pin Function

No.	Pin Name	I/O	Pin Function	Active
51	A4052E	O	Output switching control signal 1 of surround back ch	
52	A4052F	O	Output switching control signal 2 of surround back ch	
53	M62429 DT	O	Data signal for multi room volume IC control	
54	M62429 CLK	O	Clock signal for multi room volume IC control	
55	EVR DT	O	Data signal for erectronic volume	
56	EVR CLK	O	Clock signal for erectronic volume	
57	EVR CS	O	Chip select signal for erectronic volume	
58	EXP DT2	O	Data signal for expansion IC control	
59	EXP CLK2	O	Clock signal for expansion IC control	
60	EXP OE2	O	Output enable signal for expansion IC control	
61	EXP ST2	O	Chip clock signal for expansion IC control	
62	5V	–	5V power supply	
63	NC	O	NC "L" fixed.	
64	GND	–	Ground	
65	AD ATT	O	Atteneuator	H
66	AMUTE	O	System mute L: Mute ON	L
67	MRMUTE	O	Multi room mute L: Mute ON	L
68	VE ON	O	Video system power supply switch At Power ON of video system: L	L
69	NECK	O	4/6Ω switch 4Ω: H , 6Ω: L , Initial value: 6Ω	
70	H.P. SW	I	Headphone detection H: Detection	H
71	TUNER CLK	O	Clock signal of tuner control	
72	TUNER CE	O	Chip select signal of tuner control	
73	OL DET	I	Amp. overload detection H: Detection	H
74	TUNER DO	O	Data output signal of tuner control	
75	RDS CLK	O	"L" fixed	
76	TUNER DI	I	Data input signal of tuner control (pullup)	
77	T-POWER	O	Power ON/OFF of tuner module	H
78	NC	O	NC	
79	T-TMUTE	O	Tuner mute	H
80	STEREO	I	L: STEREO (pullup)	L
81	TUNED	I	L: TUNED (pullup)	L
82	EXP DT	O	Data signal of expansion IC control	
83	EXP CLK	O	Clock signal of expansion IC control	
84	EXP OE	O	Output enable signal of expansion IC control	
85	EXP ST	O	Chip clock signal of expansion IC control	
86	FAN DR	O	"L" fixed	
87	TRANS DET	I	"H" fixed by hardware	
88	232CSW	I/O	232C switch L: Main unit, H: DSP microcomputer	
89	ROM DT	I/O	EEPROM control data signal	
90	ROM CK	O	EEPROM control clock signal	
91	SIMUKE1	I	Destination read 1	
92	SIMUKE2	I	Destination read 2	
93	S-DET	I	Sync detection H: S signal present "H" for sync detection	H
94	TEMP1	I	Temperature detection H: Protection function ON	H
95	NC	O	"L" fixed	
96	AVSS	–	Connect to VSS	
97	MIC-SW	O	5-3V conversion IC control H: MIC AMP ON	H
98	VREF	–	Connect to VCC	
99	AVCC	–	Connect to VCC	
100	FWRITE	I	Forced rewriting mode detection (H: Rewriting mode)	H

■ PD5686C (DISPLAY ASSY : IC3001)

- **Display Microcomputer**

- **Pin Assignment (Top view)**


PD5686C
STBY ← 80 P67/AN6
LED OE1 ← 79 P77/AN7
LED LCK ← 78 P62/SRDY1/AN8
LED DAT ← 77 P63/AN9
CS → 76 P64/INT4/SBUSY/AN
LED CLK ← 75 P65/SSTB/AN11
VDD → 74 AREF
GND → 73 AVSS
FL BK ← 72 P50/SIN1
FL SI ← 71 P51/SOUT1
FL CLK ← 70 P52/SCLK11
FL LAT ← 69 P53/SCLK12
DI → 68 P54/RXD
DO ← 67 P55/TXD
CLK → 66 P56/SCLK21
RDY ← 65 P57/SRDY2/SCLK22
FL SW ← 1 P75/AN5
MR SW ← 2 P74/AN4
KEY1 → 3 P73/AN3
KEY2 → 4 P72/AN2
KEY3 → 5 P71/AN1
KEY4 → 6 P70/AN0
1W W.UP ← 7 P61/CNTR0/CNTR2
8 P60/CNTR1
SR IN → 9 P47/INT2
XRESET → 10 XRESET
11 P91/XCOUT
12 P90/XCIN
GND → 13 VSS
XIN → 14 XIN
XOUT ← 15 XOUT
VDD → 16 VCC
CHECKER → 17 P46/T2OUT
18 P45/T1OUT
19 P44/PWM1
20 P43/BUZO1
232C DET → 21 P42/INT3
MR IN → 22 P41/INT1
MIC SW → 23 P40/INT0
POWER ON ← 24 P87/PWMO/FLD39
P20/BUZ02/FLD00 64 → NC
P21/FLD01 63 → NC
P22/FLD02 62 → NC
P23/FLD03 61 → NC
P24/FLD04 60 → NC
P25/FLD05 59 → NC
P26/FLD06 58 → NC
P27/FLD07 57 → NC
P00/FLD08 56 ← VOL_+
P01/FLD09 55 ← VOL_–
P02/FLD10 54 ← FUNC_L
P03/FLD11 53 ← FUNC_R
P04/FLD12 52 ← INPUT_L
P05/FLD13 51 ← INPUT_R
P06/FLD14 50 → NC
P07/FLD15 49 → NC
P10/FLD16 48 → NC
P11/FLD17 47 → NC
P12/FLD18 46 → NC
P13/FLD19 45 → NC
P14/FLD20 44 → NC
P15/FLD21 43 → NC
P16/FLD22 42 → NC
P17/FLD23 41 → NC
P86/RTP1/FLD38 25 ↔ I-LINK
P85/RTP0/FLD37 26 → MR/S
P84/FLD36 27 → MC ACC
VEE 28 ← GND
P83/FLD35 29 → NC
P82/FLD34 30 → NC
P81/FLD33 31 → NC
P80/FLD32 32 → NC
P37/FLD31 33 → NC
P36/FLD30 34 → NC
P35/FLD29 35 → NC
P34/FLD28 36 → NC
P33/FLD27 37 → NC
P32/FLD26 38 → NC
P31/FLD25 39 → NC
P30/FLD24 40 → NC

• Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	FL SW	O	FL power supply ON/OFF	41	NC	O/L	Non connection
2	MR SW	O	MR PIONEER / OTHER	42	NC		
3	KEY1	I	KEY AD input	43	NC		
4	KEY2			44	NC		
5	KEY3			45	NC		
6	KEY4			46	NC		
7	1W W.UP	O	1W correspondence main wakeup	47	NC		
8	NC	O/L		48	NC		
9	SR IN	I	Remote control input of main room	49	NC		
10	RESET	–	Reset	50	NC		
11	NC	O/L	Non connection	51	NC		
12	NC			52	INPUT_R	I	Input SEL L
13	GND	–	Ground	53	INPUT_L	I	Input SEL R
14	XIN	–	Oscillator	54	FUNC_R	I	Multi JOG R
15	XOUT	–	Oscillator	55	FUNC_L	I	Multi JOG L
16	VDD	–	Power supply	56	VOL_–	I	VOL_–
17	CHECKER	I	Checker mode detection	57	VOL_+	I	VOL_+
18	NC	O/L	Non connection	58	NC	O/L	Non connection
19	NC			59	NC		
20	NC			60	NC		
21	232C DET	I	232C detection	61	NC		
22	MR IN	I	Remote control input of sub room	62	NC		
23	MIC SW	I	MIC detection	63	NC		
24	POWER ON	O	Power ON LED	64	NC		
25	I-LINK	O	I-LINK LED	65	RDY	O	Main communication RDY
26	MR/S	O	MR/S LED	66	CLK	I	Main communication CLK
27	MC ACC	O	Sound field	67	DO	O	Main communication data out
28	GND	–	Ground	68	DI	I	Main communication data in
29	NC	O/L	Non connection	69	FL_LAT	O	FL DRV LAT
30	NC			70	FL_CLK	O	FL DRV CLK
31	NC			71	FL_SI	O	FL DRV SI
32	NC			72	FL_BK	O	FL DRV BK
33	NC			73	GND	–	Ground
34	NC			74	VDD	–	Power supply
35	NC			75	LED_CLK	O	LED DRV CLK
36	NC			76	CS	O	Main communication CS
37	NC			77	LED_DAT	O	LED DRV DATA
38	NC			78	LED_LCK	O	LED DRV LCK
39	NC			79	LED_OE1	O	LED DRV OE
40	NC			80	STBY	O	STBY LED

■ PD5787A (DSP ASSY : IC701)

• DSP Microcomputer

• Pin Function

No.	Pin Name	I/O	Pin Function
1	DSP2MOSI	O	2nd DSP communication data output
2	DSP2SCK	O	2nd DSP communication clock output
3	DSP2SSI	O	2nd DSP communication strobe
4	DSP2RST	O	2nd DSP reset
5	HDO	O	Data output of microcomputer communication to main microcomputer
6	HDI	I	Data input of microcomputer communication from main microcomputer
7	HCLK	I	Clock input of microcomputer communication from main microcomputer
8	BYTE	I	Vcc (bus width 8 bit)
9	CNVSS	I	Vss (Use with memory expansion mode)
10	MODEL	I	Upper/lower model distinction input
11	FWRITE	I	FLASH rewrite control input
12	RESET	I	Reset input from main microcomputer
13	XOUT	O	Connect a ceramic resonator (7.7MHz)
14	VSS	–	Vss
15	XIN	I	Connect a ceramic resonator (7.7MHz)
16	VCC	–	Vcc
17	NMI	I	Vcc
18	96DTS	I	DTS 96kHz detection input
19	UNLK	I	UNLOCK signal input
20	DATA	I	DIR various factor data
21	DLCK	I	Demodulator UNLOCK
22	EXOE	O	OE output of expansion IC
23	S DATA	O	Data output of expansion IC
24	S CLOCK	O	Clock output of expansion IC
25	STB	O	Strobe output of expansion IC
26	DSP1RST	O	1st DSP reset
27	9624	O	DSP IC mute output (at DTS 96kHz)
28	DACMCLK	O	DAC/D.F. clock output
29	DSCMDI	I	DAC data input
30	DACMDO	O	DAC/D.F. data output
31	DSP1REQ	O	1st DSP communication request
32	DSP1RDWR	O	1st DSP READ/WRITE switch
33	DSP1BUSY	I	1st DSP BUSY communication wait
34	DSP1ACK	I	1st DSP communication completion check
35	CDTO	O	DIR serial communication data output / TxD (rewrite)
36	CDTI	I	DIR serial communication data input / RxD (rewrite)
37	CCLK	O	DIR serial communication output
38	CSN	O	DIR serial communication chip select / RTS (rewrite)
39	XRDY	I	Vcc
40	ALE	O	NC
41	XHOLD	I	Vcc
42	XHLDA	O	NC
43	BCLK	O	NC
44	XOE	O	Flash memory I/F read enable
45	XBHE	O	NC
46	XWE	O	Flash memory I/F write enable
47	MD	O	Gain amp data output
48	MC	O	Gain amp clock output
49	STB	O	Gain amp strobe output
50	XCE	O	Flash ROM CE control

• Pin Function

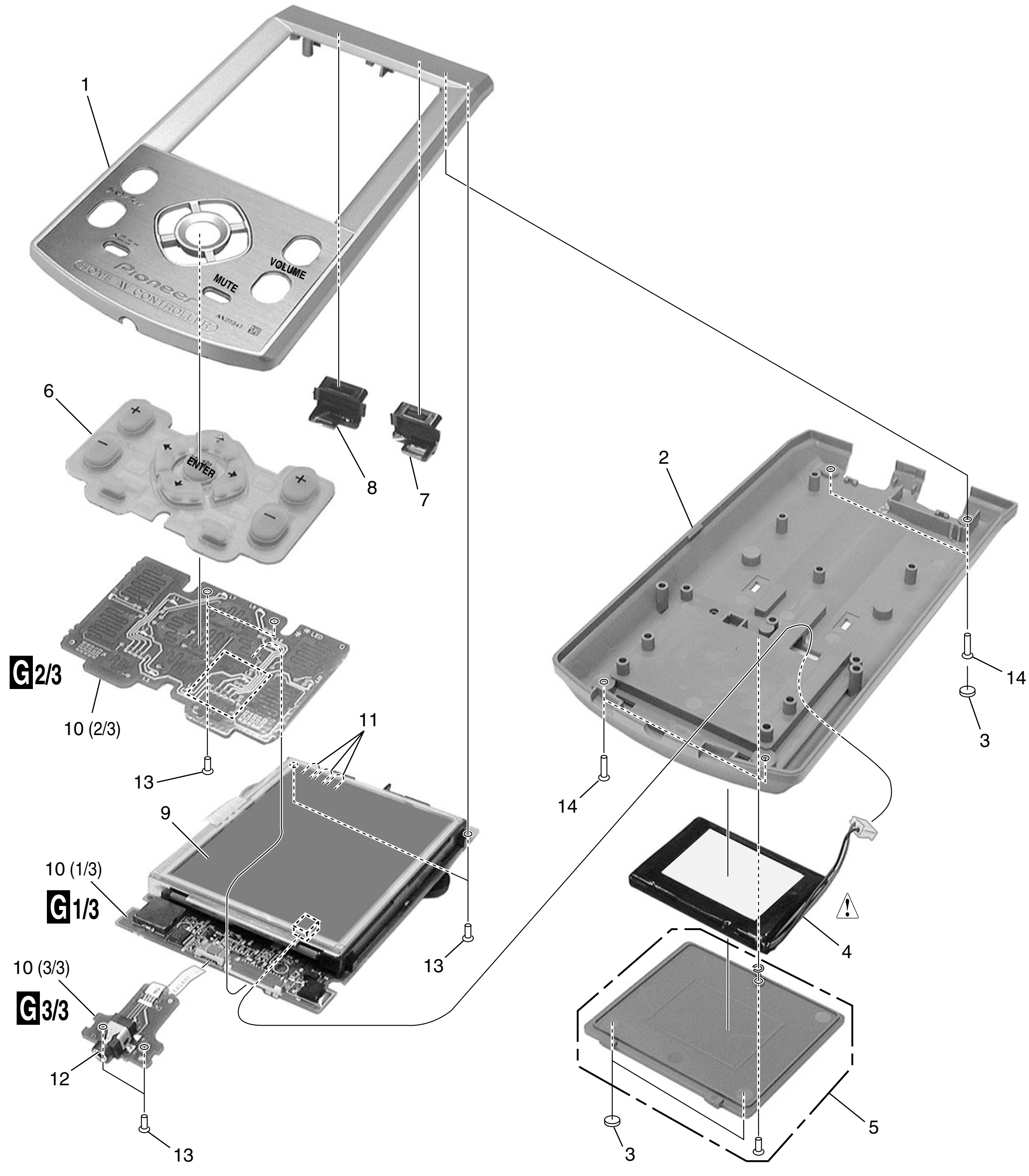
No.	Pin Name	I/O	Pin Function
51	A19	O	NC
52	A18	O	Address output of flash memory communication
53	A17		
54	A16		
55	A15		
56	A14		
57	A13		
58	A12		
59	A11		
60	A10		
61	A9		
62	Vcc	–	Vcc
63	A8	O	Address output of flash memory communication
64	Vss	–	Vss
65	A7	O	Address output of flash memory communication
66	A6		
67	A5		
68	A4		
69	A3		
70	A2		
71	A1		
72	A0		
73	XRST2	O	ADC reset output
74	DSPMUTE	O	Mute (Notify to the main microcomputer)
75	HRDY	O	Communication permission to the main microcomputer
76	DSP3REQ	O	3rd DSP communication request
77	DSP3RDWR	O	3rd DSP READ / WRITE switch
78	DSP3BUSY	I	3rd DSP BUSY communication wait
79	DSP3ACK	I	3rd DSP communication complete check
80	DSP3RST	O	3rd DSP reset
81	DQ7	I/O	Data input/output of flash memory communication
82	DQ6		
83	DQ5		
84	DQ4		
85	DQ3		
86	DQ2		
87	DQ1		
88	DQ0		
89	DSPDATA7	I/O	1st/3rd DSP data bit 7 (sharing port)
90	DSPDATA6		1st/3rd DSP data bit 6 (sharing port)
91	DSPDATA5		1st/3rd DSP data bit 5 (sharing port)
92	DSPDATA4		1st/3rd DSP data bit 4 (sharing port)
93	DSPDATA3		1st/3rd DSP data bit 3 (sharing port)
94	DSPDATA2		1st/3rd DSP data bit 2 (sharing port)
95	DSPDATA1		1st/3rd DSP data bit 1 (sharing port)
96	AVss	–	Vss
97	DSPDATA0	I/O	1st/3rd DSP data bit 0 (sharing port)
98	Vref	–	Vcc
99	AVcc	–	Vcc
100	DSP2MISO	I	2nd DSP communication data input

7.3 REMOTE CONTROL UNIT

7.3.1 EXPLODED VIEWS and PARTS LIST

■ AXD7377 (Remote control unit)

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*



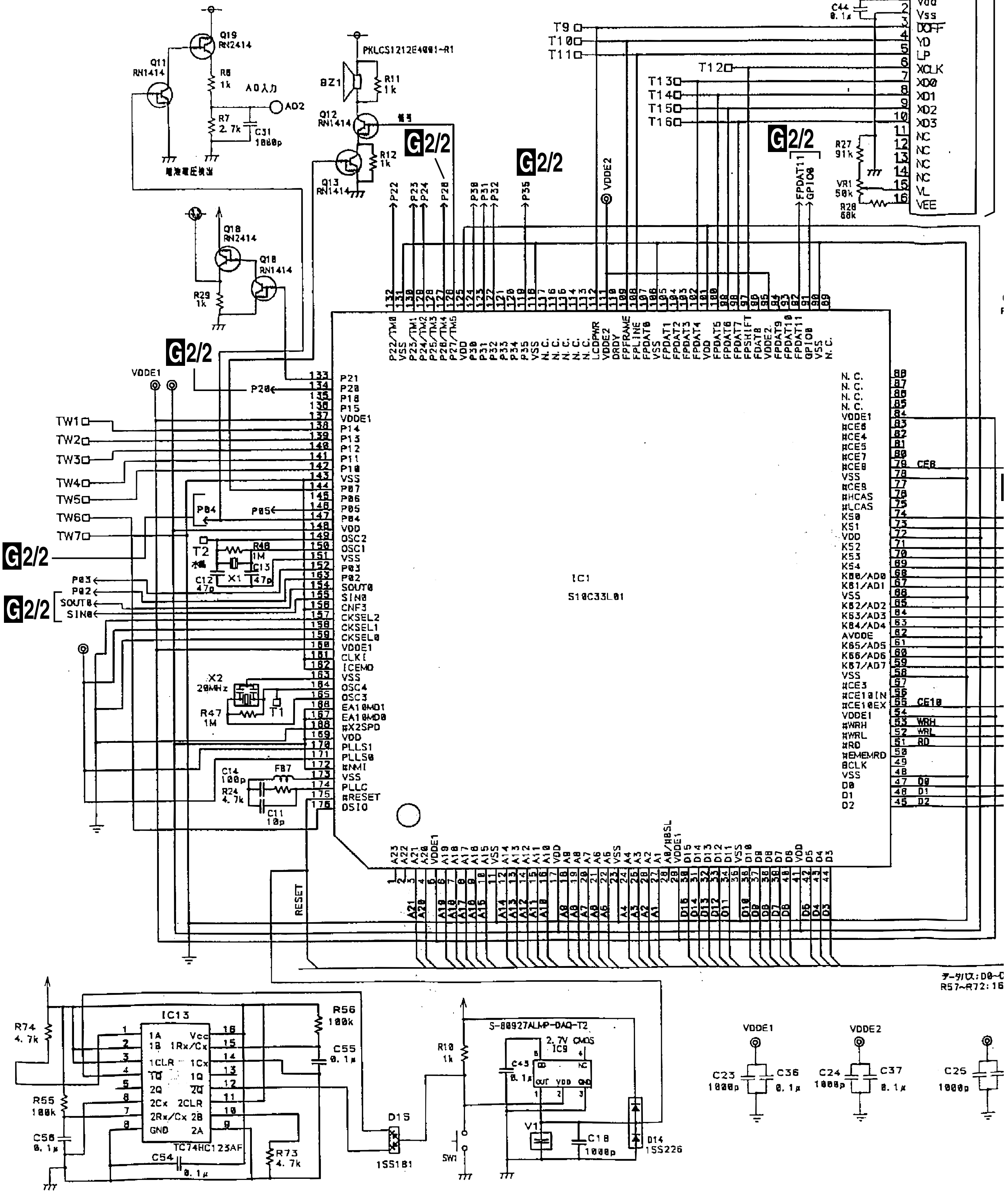
1
VOLUME
MUTE
Pioneer
HOME AV CONTROLLER
6
ENTER
8
7
2
G2/3
10 (2/3)
11
13
9
14
3
10 (1/3)
G1/3
13
10 (3/3)
G3/3
4
12
13
3
5

• parts List

Mark	No.	Description	Part No.
	1	Case A	AZN7985
	2	Case B	AZN7989
	3	Cushion	AZN7927
⚠	4	Lithium Battery	AZW7264
	5	Battery Cover	AZN7991
	6	Rubber Button	AZN7979
	7	Radiation Filter R	AZN7931
	8	Radiation Filter L	AZN7930
	9	Touch Panel Assy	AZW7287
	10	MAIN ASSY (Remote)	AZW7288
	11	LED Radiation	AZC7303
	12	1P Mini Jack	AZK7251
	13	ZN Screw (M2x5)	AZB7146
	14	NI Screw (M2x8)	AZB7147
	15	• • • • •	

7.3.2 Remote SCH

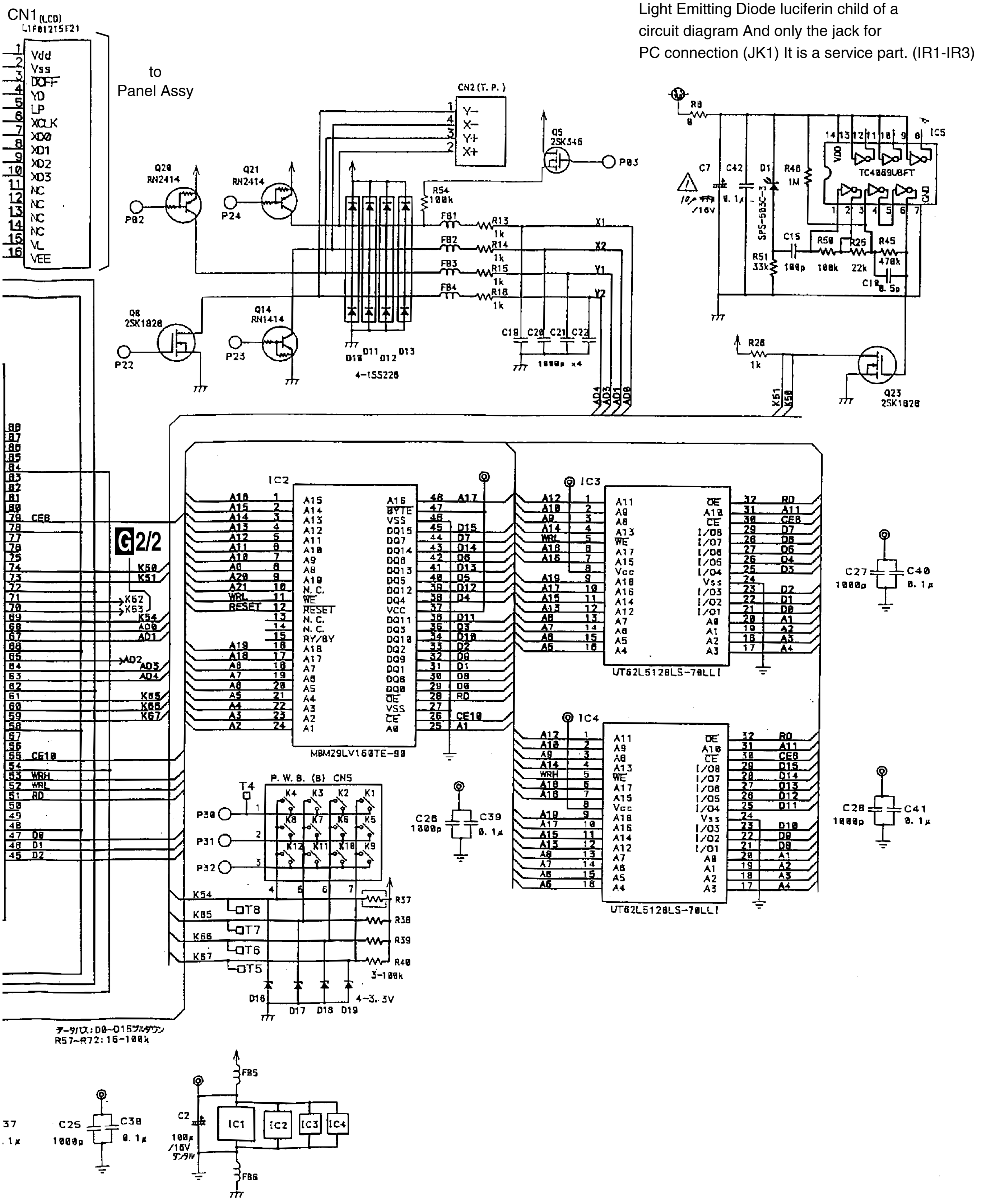
G 1/2 MAIN ASSY(Remote Control)(1/2)
(AZW7288)



CN1 (LCD)
L1F01215F21
1 Vdd
2 Vss
3 DOFF
4 YD
5 LP
6 XCLK
7 XD0
8 XD1
9 XD2
10 XD3
11 NC
12 NC
13 NC
14 NC
15 VL
16 VEE
C44 0.1μ
T9
T10
T11
T12
T13
T14
T15
T16
R27 91k
VR1 50k
R28 68k
Q19 RN2414
Q11 RN1414
R8 1k
R7 2.7k
C31 1000p
AD入力
AD2
電池電圧検出
PKLCS1212E4001-R1
BZ1
R11 1k
Q12 RN1414
Q13 RN1414
R12 1k
信号
G2/2
P22
P23
P24
P26
P30
P31
P32
P35
VDDE2
FPDAT11
GPIO8
Q18 RN2414
Q16 RN1414
R29 1k
VDDE1
P20
TW1
TW2
TW3
TW4
TW5
TW6
TW7
P04
P05
T2
水晶
R46 1M
X1
C12 47p
C13 47p
P03
P02
SOUT0
SIN0
X2 20MHz
R47 1M
T1
C14 100p
FB7
R24 4.7k
C11 10p
RESET
IC1
S1C33L01
P22/TM0
VSS
P23/TM1
P24/TM2
P25/TM3
P26/TM4
P27/TM5
VDD
P30
P31
P32
P33
P34
P35
N.C.
LCDPWR
VDDE2
DRDY
FPFRAME
FPLINE
FPDAT0
FPDAT1
FPDAT2
FPDAT3
FPDAT4
FPDAT5
FPDAT6
FPDAT7
FPSHIFT
FDAT8
FPDAT9
FPDAT10
FPDAT11
GPIO8
P21
P15
P14
P13
P12
P11
P10
P07
P06
OSC2
OSC1
CNF3
CKSEL2
CKSEL1
CKSEL0
CLKI
ICEMD
OSC4
OSC3
EA10MD1
EA10MD0
#X2SPD
PLLS1
PLLS0
#NMI
PLLC
#RESET
DSIO
#CE6
#CE4
#CE5
#CE7
#CE8
#CE9
#HCAS
#LCAS
K50
K51
K52
K53
K54
K60/AD0
K61/AD1
K62/AD2
K63/AD3
K64/AD4
AVDDE
K65/AD5
K66/AD6
K67/AD7
#CE3
#CE10IN
#CE10EX
#WRH
#WRL
#RD
#EMEMRD
BCLK
D0
D1
D2
CE8
CE10
WRH
WRL
RD
A23
A22
A21
A20
A19
A18
A17
A16
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0/#BSL
D15
D14
D13
D12
D11
D10
D9
D8
D7
D6
D5
D4
D3
データバス:D0~D
R57~R72:16
IC13
TC74HC123AF
1A
1B
1CLR
1Q
2Q
2Cx
2Rx/Cx
GND
Vcc
1Rx/Cx
1Cx
2CLR
2B
2A
R74 4.7k
R55 100k
C56 0.1μ
C54 0.1μ
R56 100k
C55 0.1μ
R73 4.7k
D15
1SS181
R10 1k
S-80927ALMP-DAQ-T2
2.7V CMOS
IC9
C43 0.1μ
OUT
VDD
GND
NC
V1
C18 1000p
D14
1SS226
SW1
VDDE1
VDDE2
C23 1000p
C36 0.1μ
C24 1000p
C37 0.1μ
C25 1000p

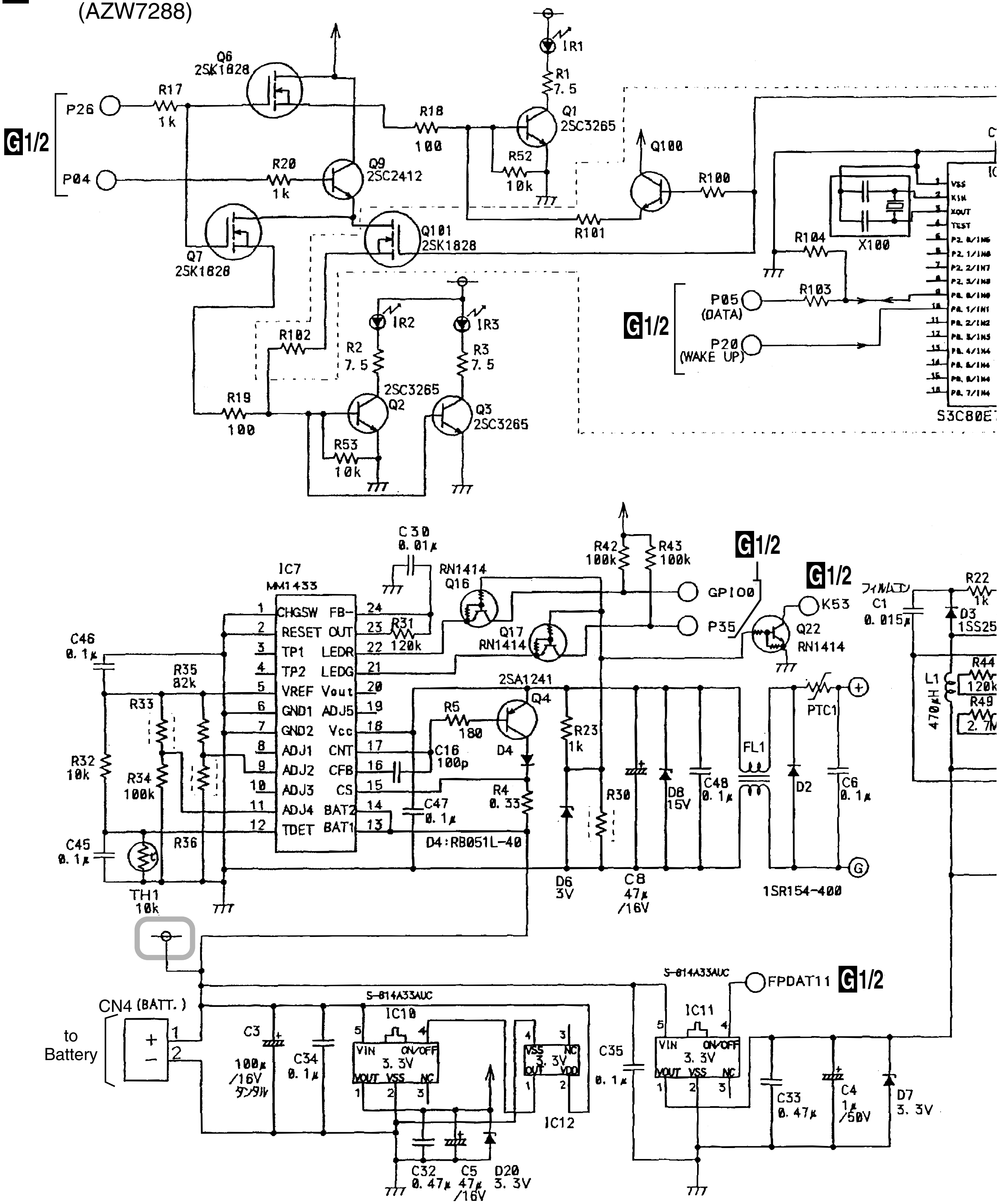
G1/2

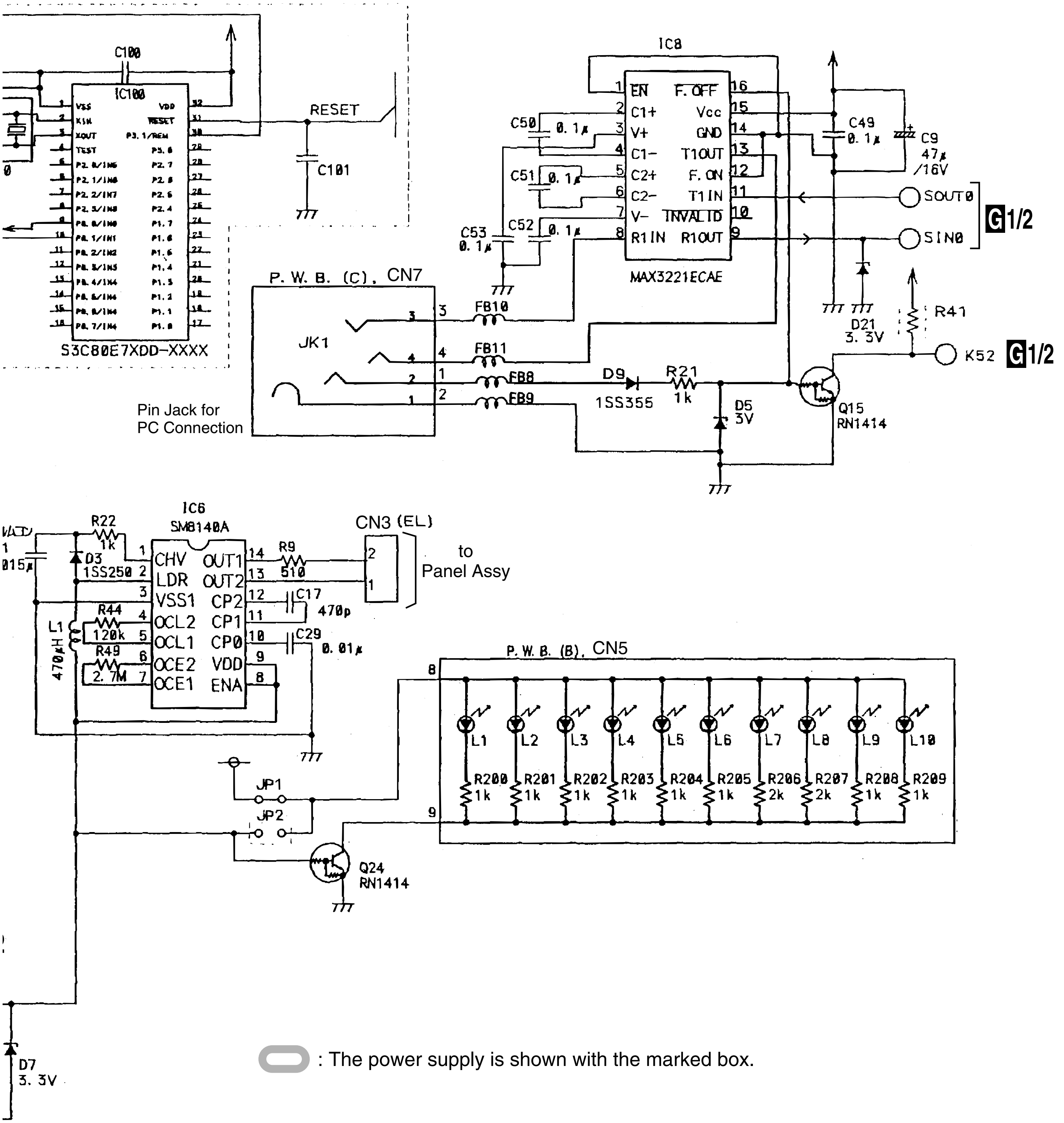
NOTE : remote control main board is substrate exchange correspondence. (2/2)
Light Emitting Diode luciferin child of a circuit diagram And only the jack for PC connection (JK1) It is a service part. (IR1-IR3)



CN1 (LCD)
L1F01215F21
Vdd
Vss
DOFF
YD
LP
XCLK
XD0
XD1
XD2
XD3
NC
VL
VEE
to
Panel Assy
CN2 (T. P.)
Y−
X−
Y+
X+
Q20
RN2414
Q21
RN2414
P02
P24
Q5
2SK346
P03
R54
100k
FB1
FB2
FB3
FB4
R13
R14
R15
R16
1k
X1
X2
Y1
Y2
Q8
2SK1828
Q14
RN1414
P22
P23
D10
D11
D12
D13
4−1SS226
C19
C20
C21
C22
1000p ×4
AD4
AD3
AD1
AD0
R8
0
C7
10μ
/16V
C42
0.1μ
D1
SPS-503C-3
R46
1M
IC5
TC4069UBFT
VDD
GND
C15
100p
R50
100k
R25
22k
R45
470k
R51
33k
C16
0.5p
R26
1k
K51
K50
Q23
2SK1828
IC2
MBM29LV160TE-90
A15
A14
A13
A12
A11
A10
A9
A8
A19
N. C.
WE
RESET
N. C.
RY/BY
A18
A17
A7
A6
A5
A4
A3
A2
A1
A16
BYTE
VSS
DQ15
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
VCC
DQ11
DQ3
DQ10
DQ2
DQ9
DQ1
DQ8
DQ0
OE
CE
A0
IC3
IC4
UT62L5128LS-70LLI
G 2/2
CE8
CE10
K50
K51
K52
K53
K54
AD0
AD1
AD2
AD3
AD4
K65
K66
K67
WRH
WRL
RD
D0
D1
D2
C27
1000p
C40
0.1μ
C28
1000p
C41
0.1μ
C26
1000p
C39
0.1μ
P. W. B. (B) CN5
T4
P30
P31
P32
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
K12
T5
T6
T7
T8
R37
R38
R39
R40
3−100k
D16
D17
D18
D19
4−3.3V
データバス：D0~D15プルダウン
R57~R72：16−100k
C25
1000p
C38
0.1μ
C2
100μ
/16V
タンタル
FB5
FB6
IC1
IC2
IC3
IC4

G 2/2 MAIN ASSY(Remote Control)(2/2)
(AZW7288)


G1/2
P26
P04
R17 1k
R20 1k
Q6 2SK1828
Q9 2SC2412
Q7 2SK1828
Q101 2SK1828
IR1
R1 7.5
R18 100
Q1 2SC3265
R52 10k
Q100
R100
R101
R102
R19 100
IR2
IR3
R2 7.5
R3 7.5
2SC3265 Q2
Q3 2SC3265
R53 10k
X100
R104
R103
P05 (DATA)
P20 (WAKE UP)
VSS
XIN
XOUT
TEST
P2.0/INT6
P2.1/INT6
P2.2/INT7
P2.3/INT8
P0.0/INT0
P0.1/INT1
P0.2/INT2
P0.3/INT3
P0.4/INT4
P0.5/INT4
P0.6/INT4
P0.7/INT4
S3C80E
IC7 MM1433
1 CHGSW
2 RESET
3 TP1
4 TP2
5 VREF
6 GND1
7 GND2
8 ADJ1
9 ADJ2
10 ADJ3
11 ADJ4
12 TDET
24 FB-
23 OUT
22 LEDR
21 LEDG
20 Vout
19 ADJ5
18 Vcc
17 CNT
16 CFB
15 CS
14 BAT2
13 BAT1
C30 0.01μ
R31 120k
RN1414 Q16
Q17 RN1414
R42 100k
R43 100k
GP100
P35
K53
Q22 RN1414
フィルムコン C1 0.015μ
R22 1k
D3 1SS25
L1 470μH
R44 120k
R49 2.7M
C46 0.1μ
R35 82k
R33
R32 10k
R34 100k
C45 0.1μ
R36
TH1 10k
2SA1241 Q4
R5 180
C16 100p
D4
C47 0.1μ
R4 0.33
D4:RB051L-40
R23 1k
D6 3V
R30
D8 15V
C8 47μ /16V
C48 0.1μ
FL1
1SR154-400
D2
PTC1
C6 0.1μ
CN4 (BATT.)
to Battery
1
2
C3 100μ /16V タンタル
C34 0.1μ
S-814A33AUC
IC10
VIN ON/OFF 3.3V VOUT VSS NC
5 4 1 2 3
VSS NC 3.3V OUT VDD
IC12
C32 0.47μ
C5 47μ /16V
D20 3.3V
C35 0.1μ
S-814A33AUC
FPDAT11
IC11
VIN ON/OFF 3.3V VOUT VSS NC
C33 0.47μ
C4 1μ /50V
D7 3.3V


C100
IC100
VSS
XIN
XOUT
TEST
VDD
RESET
P3.1/REM
S3C80E7XDD-XXXX
RESET
C101
IC8
EN
C1+
V+
C1-
C2+
C2-
V-
R1IN
F.OFF
Vcc
GND
T1OUT
F.ON
T1IN
INVALID
R1OUT
MAX3221ECAE
C50 0.1µ
C51 0.1µ
C52 0.1µ
C53 0.1µ
C49 0.1µ
C9 47µ /16V
SOUT0
SIN0
G1/2
D21 3.3V
R41
K52
G1/2
P.W.B. (C), CN7
JK1
FB10
FB11
FB8
FB9
D9 1SS355
R21 1k
D5 3V
Q15 RN1414
Pin Jack for PC Connection
IC6 SM8140A
R22 1k
D3 1SS250
CHV
LDR
VSS1
OCL2
OCL1
OCE2
OCE1
OUT1
OUT2
CP2
CP1
CP0
VDD
ENA
R44 120k
R49 2.7M
L1 470µH
R9 510
C17 470p
C29 0.01µ
CN3 (EL)
to Panel Assy
P.W.B. (B), CN5
L1
L2
L3
L4
L5
L6
L7
L8
L9
L10
R200 1k
R201 1k
R202 1k
R203 1k
R204 1k
R205 1k
R206 2k
R207 2k
R208 1k
R209 1k
JP1
JP2
Q24 RN1414
D7 3.3V

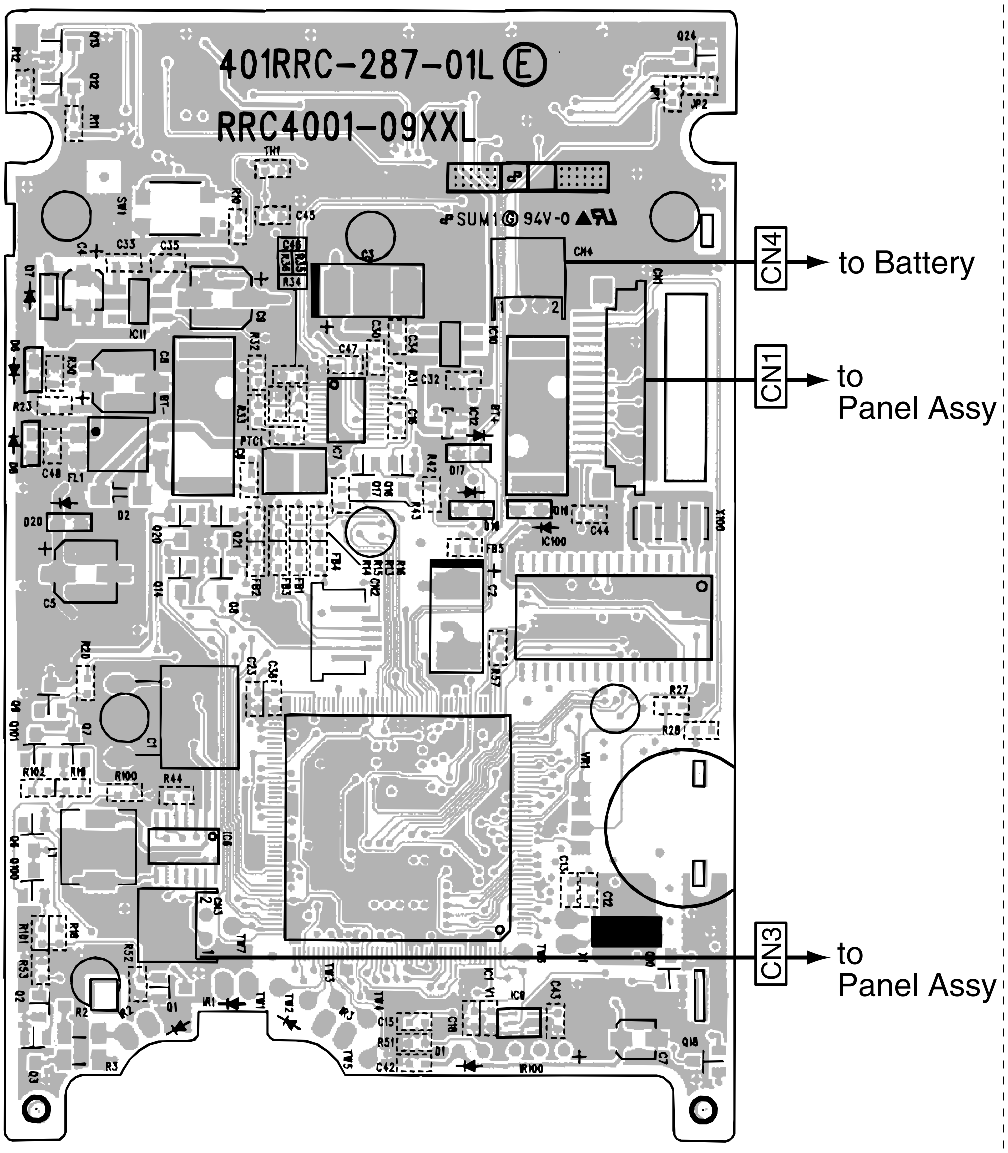
▭ : The power supply is shown with the marked box.

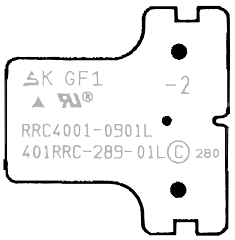
G2/2

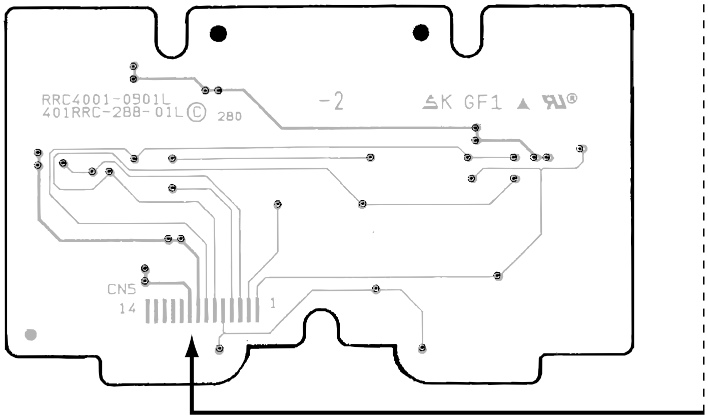
7.3.3 Remote PCB Diagram

SIDE A

G MAIN ASSY(Remote Control)


401RRC-287-01L Ⓔ
RRC4001-09XXL
SUM1 94V-0
CN4
to Battery
CN1
to
Panel Assy
CN3
to
Panel Assy

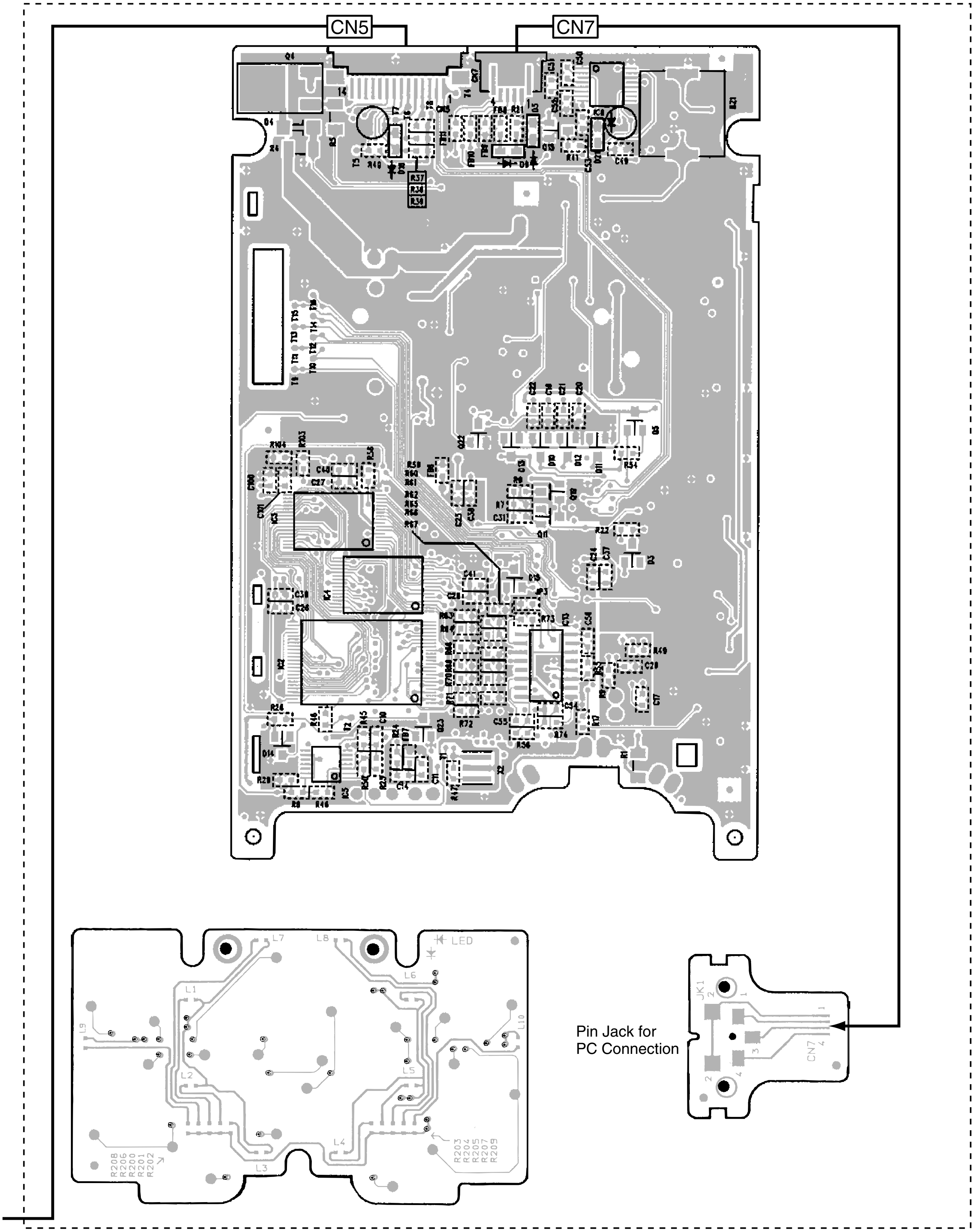

K GF1
-2
RRC4001-0501L
401RRC-289-01L Ⓒ 280


RRC4001-0501L
401RRC-288-01L Ⓒ 280
-2
K GF1
CN5
14
1

NOTE : remote control main board is substrate exchange correspondence. (2/2)
Light Emitting Diode luciferin child of a circuit diagram And only the jack for PC connection (JK1) It is a service part. (IR1-IR3)

SIDE B

G MAIN ASSY(Remote Control)

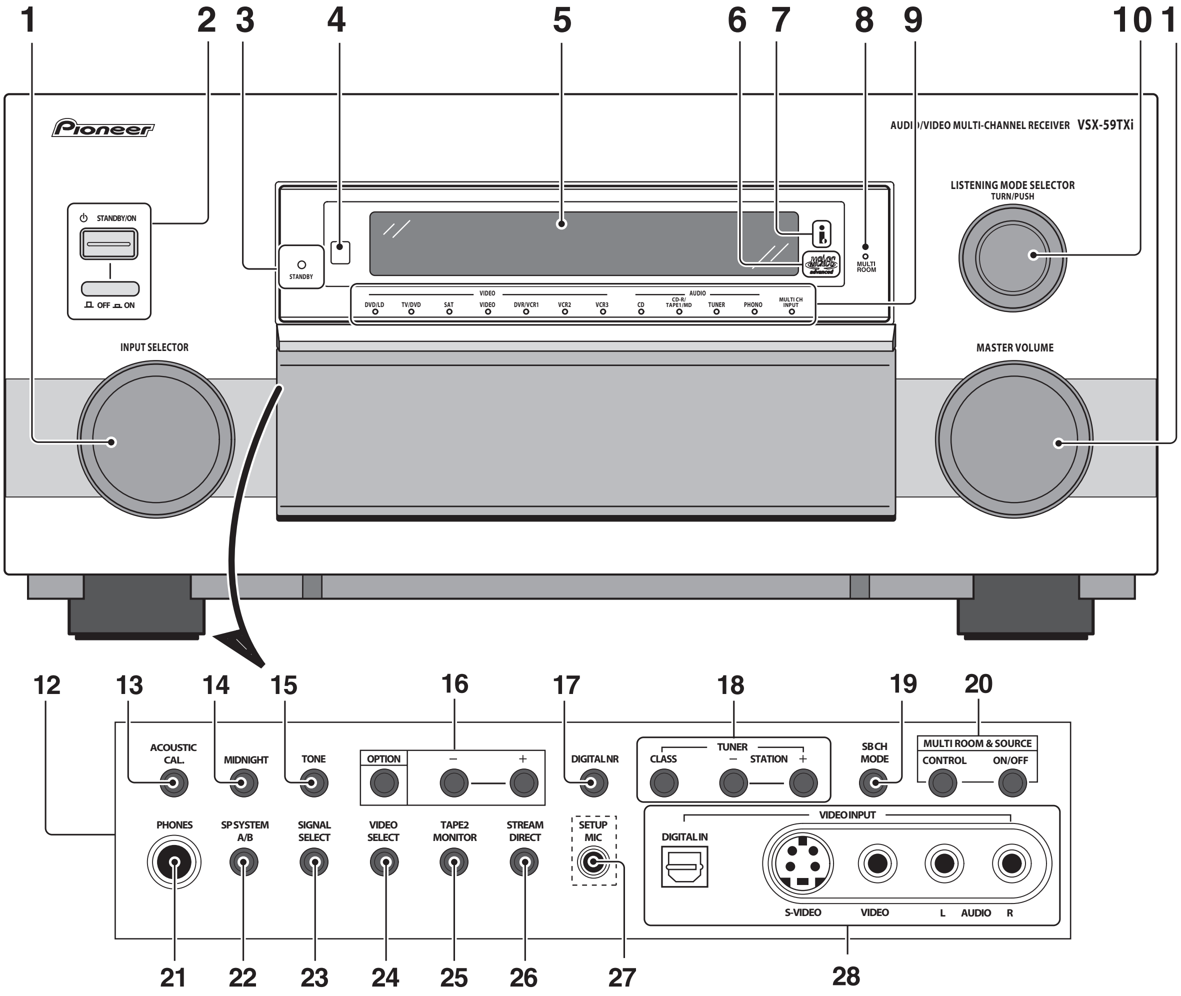

CN5
CN7
Q4
D4
R4
R3
T4
T5
R49
D18
R37
R36
R34
IC3
IC4
IC2
Q11
Q12
Q13
Q14
D5
R54
R22
C24
C37
R73
R74
C55
R72
R1
R24
R29
R46
R17
R49
C28
C17
X2
L1
L2
L3
L4
L5
L6
L7
L8
L9
L10
LED
R208
R206
R200
R201
R202
R203
R204
R205
R207
R209
JK1
CN7
1
2
3
4
Pin Jack for
PC Connection

8. PANEL FACILITIES

8.1 PANEL FACILITIES

■ Front section

Front panel


1
2
3
4
5
6
7
8
9
10
11
Pioneer
AUDIO/VIDEO MULTI-CHANNEL RECEIVER VSX-59TXi
STANDBY/ON
OFF ON
STANDBY
VIDEO
DVD/LD
TV/DVD
SAT
VIDEO
DVR/VCR1
VCR2
VCR3
AUDIO
CD
CD-R/ TAPE1/MD
TUNER
PHONO
MULTI CH INPUT
MCACC advanced
MULTI ROOM
LISTENING MODE SELECTOR TURN/PUSH
INPUT SELECTOR
MASTER VOLUME
12
13
14
15
16
17
18
19
20
ACOUSTIC CAL.
MIDNIGHT
TONE
OPTION
–
+
DIGITAL NR
TUNER
CLASS
– STATION +
SB CH MODE
MULTI ROOM & SOURCE
CONTROL
ON/OFF
PHONES
SP SYSTEM A/B
SIGNAL SELECT
VIDEO SELECT
TAPE2 MONITOR
STREAM DIRECT
SETUP MIC
VIDEO INPUT
DIGITAL IN
S-VIDEO
VIDEO
L AUDIO R
21
22
23
24
25
26
27
28

1 INPUT SELECTOR dial
Turn to select a source component. The input indicators show the current component.

2 ⏻ STANDBY/ON and power OFF ⊓ / ON ⊥
Press ⏻ **STANDBY/ON** to switch the receiver on or into standby. The **OFF**⊓ / **ON**⊥ switch turns of the main power (you can't switch on using the remote when it is in the **OFF**⊓ position).

3 STANDBYindicator
Lights when the receiver is in standby.

4 Remote sensor
Receives the signals from the remote control.

5 Display

6 MCACC indicator
Lights when Acoustic Calibration EQ is on. **Acoustic Cal EQ** is automatically set after the Auto Surround Setup has been completed.

7 i.LINK indicator
Lights when an i.LINK-Audio-equipped component is selected.

8 MULTI ROOM indicator
Shows whether the multi-room function is active or not.

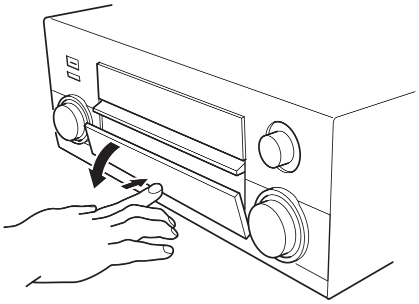
Displays & Controls

9 Input indicators
Shows the currently selected source component. The **MULTI CH INPUT** indicator lights when a component connected to the **MULTI CH INPUT** is selected. Nothing lights if an unassigned i.LINK-equipped component or USB connection is selected.

10 LISTENING MODE SELECTOR dial
Turn and push to select a listening mode.

11 MASTER VOLUME dial
Adjusts the volume.

12 Front panel controls
To access the front panel controls, push gently on the lower third portion of the panel with your finger.



13 ACOUSTIC CAL.
Press to switch Acoustic Calibration EQ on or off.

14 MIDNIGHT
Press to switch **MIDNIGHT** mode on/off.

15 TONE
Press to switch between **TONE ON** and **TONE BYPASS**, which bypasses the tone controls.

16 OPTION (–/+)
Press **OPTION** repeatedly to select an option menu item, then use **–/+** to adjust the settings.

17 DIGITAL NR
Press to switch **DIGITAL NR** on/off.

18 TUNER controls
Use the front panel tuner controls for recalling station presets.

19 SB CH MODE
Use to select the surround/virtual back channel mode.

20 MULTI ROOM & SOURCE controls
If you've made multi-room connections use these controls to control the sub room from the main room .

21 PHONES jack
Use to connect headphones (no sound will be heard through the speakers).

22 SP SYSTEM A/B
Press repeatedly to select speaker system **A**,**B**, **A/B** or off (in that order).

23 SIGNAL SELECT
Press to select the type of input signal for the current source (**DVD**, **DVR/VCR**, etc.), and also to select the number of input channels for the USB and analog multichannel inputs.

24 VIDEO SELECT
Press repeatedly to select the video source.

25 TAPE 2 MONITOR
Press to monitor recordings on the device connected to the **TAPE 2 MONITOR** inputs/outputs as they are being made.

26 STREAM DIRECT
Press to switch on/off Stream Direct.

27 SETUP MIC jack
Use to connect the supplied microphone.

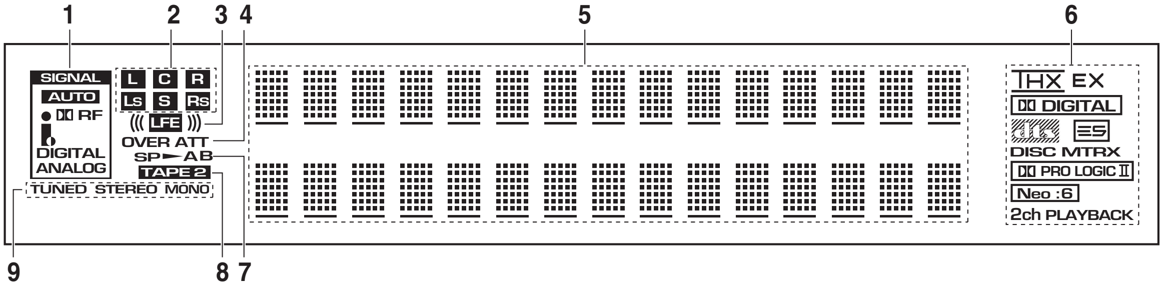
28 VIDEO INPUT jacks

DIGITAL IN – Connect a game console, portable DVD player, video camera (etc.), that has an optical digital connection.

S-VIDEO – Connect a video camera (etc.), that has an S-video out.

VIDEO / **AUDIO** (**L**/**R**) – Connect a video camera, etc. that has standard RCA video/audio outputs.

Display



1 SIGNAL indicators
Light to indicate the currently selected input signal. **AUTO** lights when the receiver is set to select the input signal automatically.

2 Program format indicators
These change according to which channels are active in Dolby, DTS, DVD-A and SACD sources.

LS, **S** and **RS** will light at the same time to indicate 6.1channel sources.

L – Left front channel

C – Center channel

R – Right front channel

LS – Left surround channel

S – Surround channel (mono)

RS – Right surround channel

LFE – Low frequency effects channel

3 ((( )))
Lights when an LFE signal is being input.

4 Analog level indicators

OVER indicator
Lights when an analog input signal is too high, risking distortion. Use the input attenuator to reduce the level.

ATT indicator
Lights when the input attenuator is on.

5 Character display

6 Digital format indicators

DD DIGITAL – Lights when a Dolby Digital signal is detected.

dts – Lights when a DTS signal is detected.

THX – Lights when one of the Home THX modes is selected.

EX – Lights during Surround EX matrix processing.

ES – Lights when a decoding DTS-ES audio.

DISC – Lights during DTS-ES discrete processing.

MTRX – Lights during DTS-ES matrix processing.

DD PRO LOGIC II – Lights during Dolby Pro Logic II and Pro Logic IIx processing.

Neo:6 – Lights during Neo:6 processing with 2-channel sources.

2ch PLAYBAC – Lights during two-channel playback.

7 Speaker indicators
Light to indicate the current speaker system, **A** and/or **B**.

8 TAPE 2
Lights when the **TAPE 2** monitor is switched on.

9 Tuner indicators

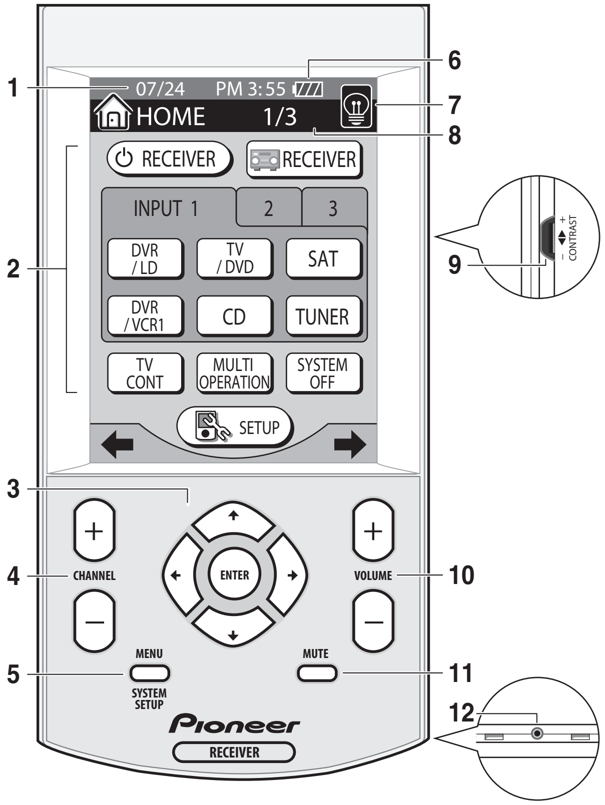
STEREO
Lights when listening to a stereo FM broadcast in auto/stereo mode.

TUNED
Lights when tuned to a broadcast.

MONO
Lights when the tuner MPX mode is set to mono.

8.2 Remote Control

Remote Control


1
07/24 PM 3:55
HOME 1/3
RECEIVER
RECEIVER
INPUT 1
2
3
DVR / LD
TV / DVD
SAT
DVR / VCR1
CD
TUNER
TV CONT
MULTI OPERATION
SYSTEM OFF
SETUP
2
3
4
5
6
7
8
9
+ CONTRAST –
CHANNEL
ENTER
VOLUME
MENU
SYSTEM SETUP
MUTE
10
11
12
Pioneer
RECEIVER

1 Date and time display
This to the current time.

2 LCD touch screen
The LCD touch screen appears when the screen is touched or a button on the remote control is pressed.

3 Cursor hard keys andENTER
Use to navigate menus and select options/execute commands.

4 CHANNEL +/–
Use to select channels.

5 MENU / SYSTEM SETUP
Use to display the System Setup menu (or a menu when controlling other components, such as a DVD or TV).

6 ▰▰▰
Displays the rechargeable battery status. The recharge indicator (🔌) shows when the remote is being recharged.

7 💡
Press to switch the touch screen backlight on or off.

8 Menu screen number
Displays the screen number in the current menu, as well as the number of screens.

9 Contrast control
Use to adjust the contrast of the LCD touch screen.

10 VOLUME +/–
Use to adjust the volume.

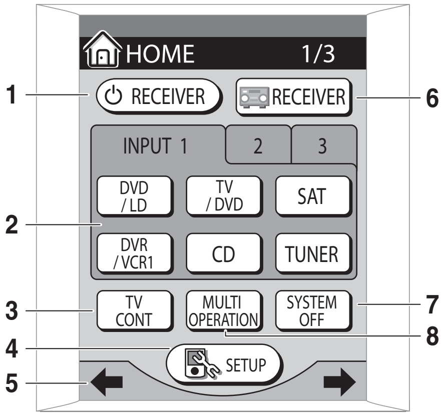
11 MUTE
Press to mute all output. Press again (or adjust the volume using the **MASTER VOLUME** control) to restore the sound.

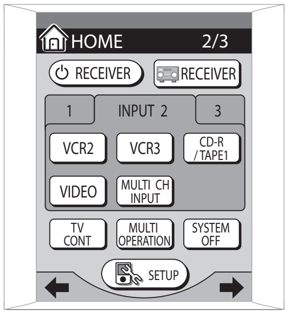
12 Servicing terminal
For use by Pioneer service technicians.

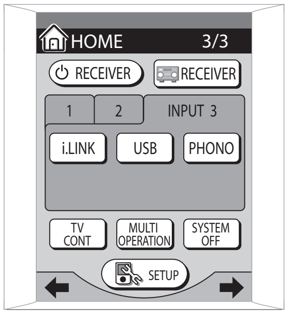
Basic remote control displays

The remote control LCD touch screen has a number of displays from which you can control receiver functions, as well as control operations for other components. The basic menu screens are explained here.

Home menu screens
There are three Home menu screens, which can be navigated by using the touch panel ⬅/➡ (cursor left/right) soft keys or **INPUT 1**, **2** or **3**.


HOME 1/3
RECEIVER
RECEIVER
INPUT 1
2
3
DVD / LD
TV / DVD
SAT
DVR / VCR1
CD
TUNER
TV CONT
MULTI OPERATION
SYSTEM OFF
SETUP
1
2
3
4
5
6
7
8


HOME 2/3
RECEIVER
RECEIVER
1
INPUT 2
3
VCR2
VCR3
CD-R / TAPE1
VIDEO
MULTI CH INPUT
TV CONT
MULTI OPERATION
SYSTEM OFF
SETUP


HOME 3/3
RECEIVER
RECEIVER
1
2
INPUT 3
i.LINK
USB
PHONO
TV CONT
MULTI OPERATION
SYSTEM OFF
SETUP

1 ⏻ RECEIVER
Press to switch the receiver on or into standby.

Receiver MAIN Screen 1/2

2 INPUT 1 / 2 / 3
Press **1**, **2** or **3** to find the screen with the input source you want. After pressing the appropriate button to choose a source, you are taken to the corresponding function menu.

3 TV CONT
Press to access the TV control menu (see *TV control menu screens* below).

4 SETUP
Press to access the remote control setup menu.

5 ⬅/➡ (soft keys)
Press to go to the previous/next Home menu screen.

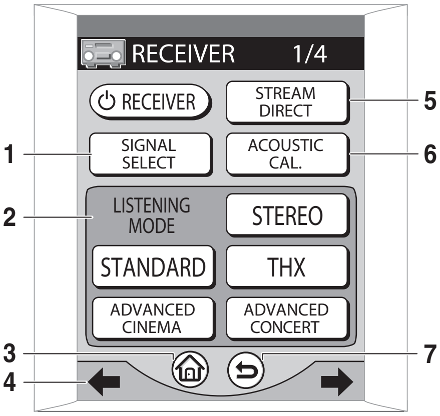
6 RECEIVER
Press to go to the receiver main menu.

7 SYSTEM OFF
Press to switch off all Pioneer components in your system, or any other component you have also programmed to switch off using the System Off function.

8 MULTI OPERATION
Use this button to perform multi operations.

Receiver menu screens

There are four receiver menu screens, which can be navigated by using the touch panel ⬅/➡ (cursor left/ right) soft keys.


RECEIVER 1/4
RECEIVER
STREAM DIRECT
SIGNAL SELECT
ACOUSTIC CAL.
LISTENING MODE
STEREO
STANDARD
THX
ADVANCED CINEMA
ADVANCED CONCERT
1
2
3
4
5
6
7

1 SIGNAL SELECT
Press to select the type of input signal for the current source (**DVD**, **DVR/VCR**, etc.), and also to select the number of input channels for the USB and analog multichannel inputs.

2 LISTENING MODE selector
Use to select a listening mode.

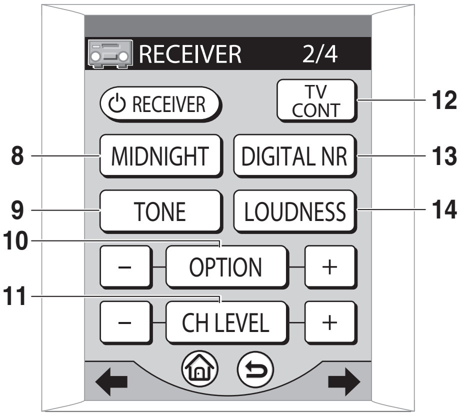
3 ⌂
Press to return to the main Home menu.

4 ⬅/➡ (soft keys)
Press to go to the previous/next receiver menu screen.

5 STREAM DIRECT
Press to select a Stream Direct mode.

6 ACOUSTIC CAL.
Press to select an acoustic calibration EQ setting.

7 ↩
Press to go to the previous screen (or set of screens).


RECEIVER 2/4
RECEIVER
TV CONT
MIDNIGHT
DIGITAL NR
TONE
LOUDNESS
–
OPTION
+
–
CH LEVEL
+
8
9
10
11
12
13
14

8 MIDNIGHT
Press to switch on/off Midnight listening.

9 TONE
Press to switch the tone controls on/off.

10 OPTION (–/+)
Press **OPTION** repeatedly to select an option menu item, then use **–/+** to adjust the settings.

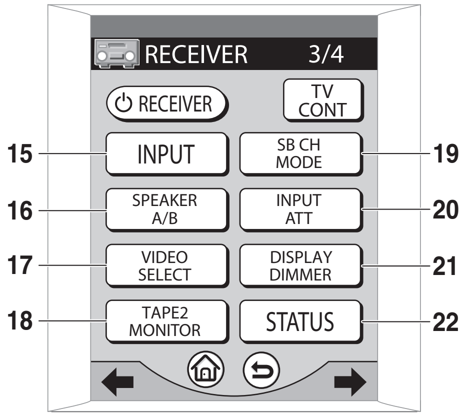
11 CH LEVEL (+/–)
Press **CH LEVEL** repeatedly to select a channel, then use **–/+** to adjust the level.

12 TV CONT
Press to access the TV control menu (see *TV control menu screens* below).

13 DIGITAL NR
Press to switch digital noise reduction on/off.

14 LOUDNESS
Press to switch Loudness on/off.

Receiver MAIN Screen 2/2


RECEIVER 3/4
RECEIVER
TV CONT
INPUT
SB CH MODE
SPEAKER A/B
INPUT ATT
VIDEO SELECT
DISPLAY DIMMER
TAPE2 MONITOR
STATUS
15
16
17
18
19
20
21
22

15 INPUT
Press repeatedly to cycle through all possible input sources.

16 SPEAKER A/B
Press repeatedly to select speaker system **A**,**B**, **A/B**or off (in that order).

17 VIDEO SELECT
Press repeatedly to select the video source.

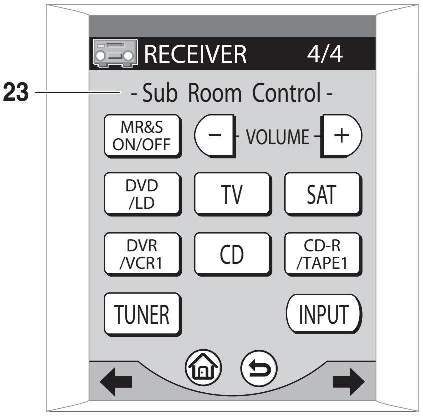
18 TAPE 2 MONITOR
Press to monitor recordings on the device connected to the **TAPE 2 MONITOR** inputs/outputs as they are being made.

19 SB CH MODE
Use to select the surround/virtual back channel mode.

20 INPUT ATT
Press to switch the input attenuator on/off.

21 DISPLAY DIMMER
Use to adjust the brightness of the front panel display.

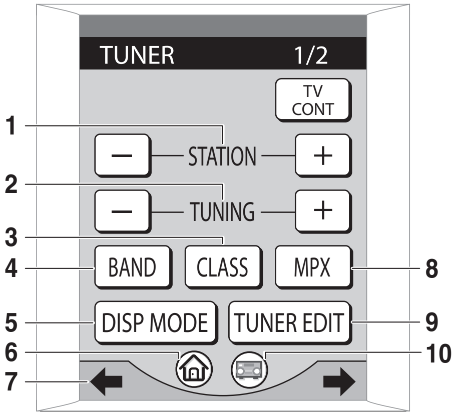
22 STATUS
Press to check selected receiver settings.


RECEIVER 4/4
- Sub Room Control -
23
MR&S ON/OFF
VOLUME
DVD /LD
TV
SAT
DVR /VCR1
CD
CD-R /TAPE1
TUNER
INPUT

23 Sub Room Control
Use this menu screen to control your sub room setup (if you've made multi-room connections). The source and **INPUT** buttons select input sources, and **VOLUME (+/–)** controls the sub room volume. Press **MR&S ON/OFF** to use the buttons on this screen in the sub room.

Remote control displays for the tuner

The functions on these screens are used to control the tuner.


TUNER 1/2
TV CONT
STATION
TUNING
BAND
CLASS
MPX
DISP MODE
TUNER EDIT
1
2
3
4
5
6
7
8
9
10

1 STATION + / –
Press to select station presets.

2 TUNING + / –
Use to select a listening mode.

3 CLASS
Press to switch between the three banks (classes) of station presets.

4 BAND
Press to switch between AM and FM radio bands.

5 DISP MODE
Press to switch between the frequency display and the station name display.

6 ⌂
Press to return to the main Home menu (see *Home menu screens* above).

7 ⬅/➡ (soft keys)
Press to go to the previous/next receiver menu screen.

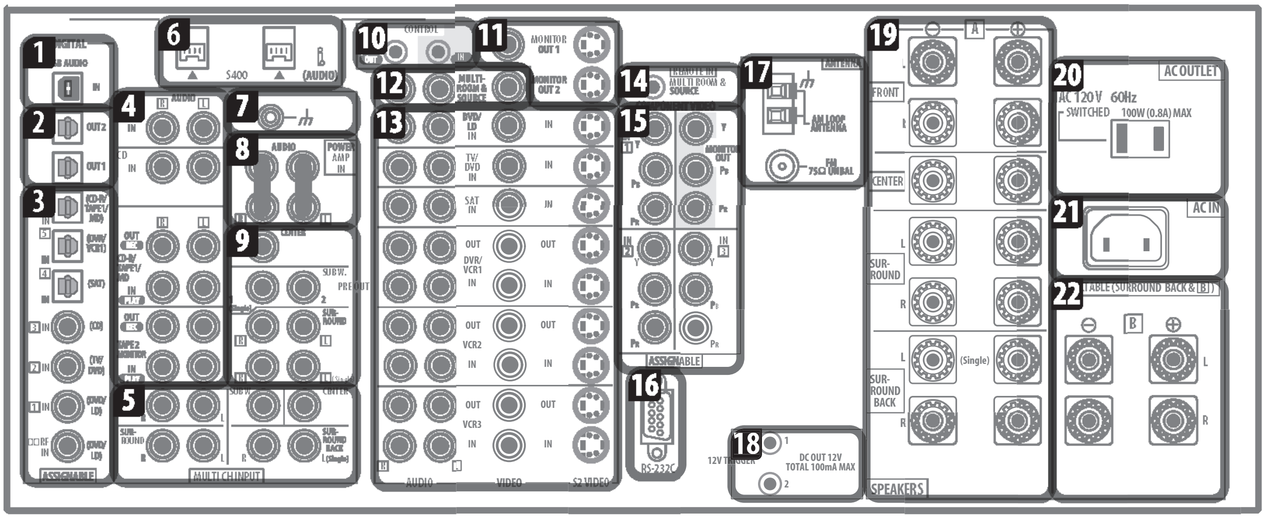
8 MPX
Press to listen to a radio broadcast in mono.

9 TUNER EDIT
Press to memorize and name a station preset.

10 ▭
Press to go to the receiver main menu (see *menu screens* above).

8.3 Rear Panel

Rear panel


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
USB AUDIO
IN
OUT2
OUT1
(CD-R/TAPE1/MD)
(DVR/VCR1)
(SAT)
(CD)
(TV/DVD)
(DVR/LD)
(DVD/LD)
ASSIGNABLE
S400
(AUDIO)
AUDIO
CD
IN
OUT
PLAY
REC
TAPE2 MONITOR
POWER AMP IN
CENTER
SUB W.
PRE OUT
SUR-ROUND
SUR-ROUND BACK
(Single)
MULTI CH INPUT
CONTROL
MONITOR OUT 1
MONITOR OUT 2
MULTI-ROOM & SOURCE
DVD/LD IN
TV/DVD IN
SAT IN
DVR/VCR1
VCR2
VCR3
AUDIO
VIDEO
S2 VIDEO
REMOTE IN
MULTI ROOM & SOURCE
MONITOR OUT
Y
P_B
P_R
ASSIGNABLE
RS-232C
ANTENNA
AM LOOP ANTENNA
FM 75Ω UNBAL
12V TRIGGER
DC OUT 12V TOTAL 100mA MAX
A
FRONT
CENTER
SURROUND
SURROUND BACK
L
R
SPEAKERS
AC OUTLET
AC 120V 60Hz
SWITCHED
100W (0.8A) MAX
AC IN
(SURROUND BACK & B)
B

Caution

Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in components should be the last connection you make with your system.

1 USB audio input
The USB audio input allows you to use your PC as a playback source for stereo or multichannel digital audio.

2 Digital audio outputs
Two optical digital audio outputs for connecting to a CD, MD or other digital recorder.

3 Digital audio inputs
Three optical and three coaxial digital audio inputs for connecting digital audio sources to this receiver. There's also a **DDRF IN** jack for connection to an LD player with a **DDRF** output.

All the inputs are freely assignable to input functions for maximum flexibility.
If a connected component does not correspond to the input function (**DVD/LD**, etc.).

4 Stereo analog audio source inputs/outputs
Four sets of analog audio jacks for connection to audio sources such as CD players, tape decks and turntables. The **CD-R/TAPE 1/MD** and **TAPE 2 MONITOR** functions also feature outputs for recording.

5 Multichannel analog audio inputs
7.1 channel analog inputs for connection to a DVD player with multichannel analog outputs.

6 i.LINK connectors
Two S400-type i.LINK connectors allow you to connect this receiver to other compatible i.LINK audio devices for high-resolution, multichannel digital audio input/output.

7 Turntable ground
A grounding (earth) terminal for use with turntables that require it.

8 Pre-amplifier output/power amplifier input

9 Multichannel pre-amplifier outputs

10 Control input/output

11 Monitor video outputs

12 Multi-room and source outputs

13 Audio/video source inputs

14 Remote input (multi-room and source)

15 Component video inputs/output

16 RS-232C connector

17 Antenna terminals

18 12V trigger jacks

19 Speaker terminals

20 AC power outlet

21 AC power inlet

22 B speaker terminals